# **Medical Surgical Nursing**

# **Cardiovascular Thoracic Nursing**

Placement: III Semester- T-75 hrs (I-VIII unit)

Practical- 150 hrs

IV Semester- T-75 hrs (IX- XIV unit)

Practical-810 hrs

Hours of Instruction

Theory: 150 hours: C-3

Practical: 960 hours: C-16

Total: 1100 hours: C-19

## **Course Description**

This course is designed to assist students in developing expertise and in-depth understanding in the field of cardiovascular and thoracic nursing. It will help students to develop advanced skills for nursing intervention in various cardio medical and surgical conditions. It will enable the student to function as Cardio vascular and Thoracic Nurses practitioner / specialist. It will further enable the student to function as educator, manager and research in the field of cardiovascular and thoracic nursing.

## **Objectives**

At the end of the course the students will be able to:

- 1. Appreciate trends and issues related to cardiovascular and thoracic Nursing
- 2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of cardiovascular and thoracic conditions

- 3. Participate in national health programmes for health promotion prevention and rehabilitation of patients with cardiovascular and thoracic conditions
- 4. Perform physical, psychosocial and spiritual assessment
- 5. Assist in various diagnostic, therapeutic and surgical procedures
- 6. Apply nursing process in providing comprehensive care to patients with cardiovascular and thoracic conditions
- 7. Demonstrate advance skills/competence in managing patients with cardio vascular and thoracic conditions including Advance Cardiac Life support
- 8. Describe the various drugs used in cardio vascular and thoracic conditions and nurses responsibility
- 9. Demonstrate skill in handling various equipments /gadgets used for critical care of cardiovascular and thoracic patients
- 10. Appreciate team work and co-ordinate activities related to patient care
- 11. Practice infection control measures
- 12. Identify emergencies and complications and take appropriate measures
- 13. Discuss the legal and ethical issues in cardio vascular and thoracic nursing
- 14. Assist patients and their family to cope up with emotional distress, grief anxiety and spiritual needs
- 15. Appreciate the role of alternative system of medicine in care of patient
- 16. Incorporate evidence based nursing practice and practice and identify the areas of research in the field of cardiovascular and thoracic nursing
- 17. Identify the sources of stress and manage burnout syndrome among health care providers
- 18. Teach and supervise nurses and allied health workers
- 19. Design a layout of ICCU and ICTU and develop standards for cardio vascular and thoracic nursing practice

#### **Course Content**

Unit	Hours	Topics
I	5	INTRODUCTION
		<ul> <li>Historical development, trends and issues in the field of cardiology.</li> <li>Cardio vascular and thoracic conditions –major health problem.</li> <li>Concepts, principles and nursing perspectives</li> <li>Ethical and legal issues</li> <li>Evidence based nursing and its application in cardio vascular and thoracic nursing ( to be incorporated in all the units)</li> </ul>

5	EPIDEMIOLOGY
	<ul> <li>Risk Factors: Hereditary psychosocial factors, hypertension, smoking, obesity, diabetes mellitus etc.</li> <li>Health promotion disease prevention, Life style modification Conditions</li> <li>National health programs related to cardio vascular and thoracic conditions</li> <li>Alternative system of medicine</li> <li>Complementary therapies</li> </ul>
5	REVIEW OF ANATOMY AND PHYSIOLOGY OF CARDIO VASCULAR AND RESPIRATORY SYSTEM
	<ul> <li>Review anatomy&amp; physiology of heart, lung, thoracic cavity</li> <li>Embryology of the heart &amp; lungs</li> <li>Coronary circulation, Pulmonary circulation, Systemic circulation</li> <li>Hemodynamic and electrophysiology of heart</li> <li>Biochemistry of blood in relation to cardio pulmonary function</li> </ul>
20	<ul> <li>➤ History taking</li> <li>➤ Physical assessment</li> <li>• Heart rate variability: Mechanisms, measurements, pattern, factors, impact of interventions on HRV</li> <li>➤ Diagnostic tests</li> <li>• Hemodynamic monitoring: Technical aspects, monitoring, functional hemodynamic indices, ventricular function indices, output measurements ( Arterial and swan Ganz monitoring). Blood gases and its significances, oxygen supply and demand</li> <li>• Radiological examination of the chest &amp; its implications</li> <li>• Interpretation ,chest, films findings</li> <li>• Electrocardiography(ECG) –Electrical conduction to the heart electrocardiography,12 lead electero cardiography determination</li> <li>• ECG changes in intraventricular conduction abnormalities, arrhythmias, ischemia and infraction, atrial and ventricular enlargement imbalance.</li> <li>• Echocardiography-Echocardiography of cardiac structure in health and disease, newer techniques-indication, procedure, normal and deviation</li> <li>• Nuclear and other imaging study of the heart</li> <li>• Stress test(TMT):indications and objectives ,safety and pre intra and post care</li> </ul>
	5

		<ul> <li>and catheter ablation, nursing care</li> <li>Cardiac catheterization: indications and contraindications preparations, procedures, interpretation of data, After care spirometry, blood gas analysis, x-ray chest electrophysiology procedures, diagnostic studies, interventional and catheter ablation, nursing care</li> <li>Pulmonary function test-bronchoscope and graphics</li> <li>Interpretation of diagnostic measures</li> <li>Nurses role in diagnostic test</li> <li>Blood test: blood specimen collection, Cardiac markers, blood lipids, hematological studies, blood culture, coagulation studies, cardiac enzymes, ABG, blood chemistries, serum concentration of selected drugs</li> <li>Interpretation and role of nurse Heart rate variability mechanisms, measurements, patterns, factors, impact intervention HRV</li> </ul>
V	10	CONGENITAL HEART DISEASES  Etiology ,clinical manifestations ,diagnosis, prognosis related pathophysiology and nursing management of: Review of embryological development of heart Classification- Cyanotic heart diseases, acrynotic heart diseases Tetralogy of fallots Atrial septal defect, Ventricular septal defect, Eisenmenge'rs complex Patent duct arteriousus, AP window Trancus Arteriosus Transposition of grat arteries. Total Anomaly of Pulmonary venous Connection. Pulmonary stenosis, atresia. Coarctation of aorta. Ebstein's anomaly Double outlet right ventricle, Single ventricle, Hypoplastic left heart syndrome.

VI	10	VASCULAR DISORDERS AND NURSING MANAGEMENT
		<ul> <li>Etiology, clinical manifestation, diagnosis, prognosis related pathophysiology and nursing management of:</li> <li>Disorders of arteries</li> <li>Disorders of the aorta</li> <li>Aortic aneurysm</li> <li>Aortic dissection</li> <li>Raynaud's phenomenon</li> <li>Peripheral artery diseases of the lower extremities</li> <li>Venous thrombosis</li> <li>Varicose veins</li> <li>Chronic venous insufficiency and venous leg ulcers</li> <li>Pulmonary embolism</li> </ul>
VII	10	CARDIOTHORACIC EMERGENCY INTERVENTIONS
		<ul> <li>CPR - BLS &amp; ACLS</li> <li>Use of patient ventilator, defibrillator, Pacemaker</li> <li>Care of critically ill patients</li> <li>ICU psychosis &amp; stress management</li> <li>Post resuscitation Care</li> <li>Psychosocial and spiritual aspects of care.</li> </ul>
VIII	10	NURSING CARE OF A PATIENT WITH OBSTRUCTIVE AIRWAY
		<ul> <li>Assessment</li> <li>Use of the artificial airway</li> <li>Complications, minimum cuff leak, securing tubes</li> <li>Endotracheal intubation, tracheostomy and its care</li> <li>Oxygen delivering systems</li> </ul>
		<ul> <li>Nasal cannula</li> <li>Oxygen mask, ventury mask</li> <li>Partial rebreathing bag</li> <li>Bi- PAP and C PAP mask</li> <li>Uses , advantages, disadvantages, nursing implications of each</li> <li>Mechanical ventilation</li> </ul>
		<ul> <li>Principles of mechanical ventilation</li> <li>Types of mechanical ventilation and ventilators</li> <li>Modes of ventilation, advantages, disadvantages, complications</li> <li>PEEP therapy, indications, physiology and complications, weaning of the</li> </ul>

		ventilator	
		Nursing assessment and intervention of ventilator patient	
		- Warsing assessment and intervention of ventuator patient	
IX	10	PHARMACOLOGY THERAPEUTIC TO CVT CONDITION	
1/	10	THANNIACOLOGI THENAFLOTIC TO CVT CONDITION	
		Dhama adin stica	
		Pharmacokinetics     A salaration (and the first state of the salaration).	
		Analgesics/anti inflammatory agents	
		Antibiotics, antiseptics	
		Drug reaction and toxicity	
		Drug used in cardiac emergencies	
		Blood and blood components	
		Antithrombolytic agents	
		Ionotropic agents	
		Beta blocking agents	
		Calcium channel blockers	
		<ul> <li>Vasoconstrictors</li> </ul>	
		<ul> <li>Vasodilators</li> </ul>	
		ACE inhibitors	
		<ul> <li>Anticoagulants</li> </ul>	
		Antiarrhythmic drugs	
		Antihypertensive	
		Sedative and transquilizers	
		Digitalis	
		Antilipemics	
		<ul> <li>principles of drug administration, role and responsibilities of nurses and</li> </ul>	
		care of drugs	
Х	25	CARDIAC DISORDERS AND NURSING MANAGEMENT	
		Etiology, clinical manifestation, diagnosis, prognosis related	
		pathophysiology, complication, rehabilitation drugs, specific diet and	
		nursing management of:	
		Hypertension	
		Ischemic heart disease, Angina pectoris, Coronary artery disease	
		Myocardial infarction	
		<ul> <li>Inflammatory heart diseases, Endocarditis, myocarditis, pericarditis</li> </ul>	
		Heart failure, acute chronic ,CCF	
		Rheumatic heart disease and other valvular diseases	
		<ul> <li>Rheumatic heart disease and other valvular diseases</li> <li>Cardiomyopathies, dilated, restrictive hypertrophic, cardiomegaly</li> <li>Arrhythmias</li> </ul>	

		Cardiac emergencies
		<ul> <li>Angina of various types and associated illnesses</li> </ul>
XI	10	ALTERED PULMONARY CONDITIONS:
		<ul> <li>Etiology, clinical manifestation, diagnosis, prognosis related pathophysiology, complications, Preventive measures, Rehabilitations, Patient education, Drug specific, Diet specific and nursing management of:</li> <li>Bronchitis</li> <li>Bronchial Asthma</li> <li>Bronchiectasis</li> <li>Pneumonias</li> <li>Lung abscess, lung tumour</li> <li>Pulmonary tuberculosis, fibrosis, pneumoconiosis etc</li> <li>Pleuritis, effusion</li> <li>Pneumo, haemo and pyothorax</li> <li>Interstitial lung disease</li> <li>Cystic fibrosis</li> <li>Acute and chronic obstructive pulmonary disease (conditions leading to)</li> <li>Cor pulmonale Acute respiratory failure, Adult respiratory distress syndrome pulmonary embolism pulmonary hypertension</li> </ul>

		NURSING CARE OF PATIENT UNDERGOING CARDIOTHORACIC SURGERY
XII	20	<ul> <li>NURSING CARE OF PATIENT UNDERGOING CARDIOTHORACIC SURGERY</li> <li>Indications, selection of the patient</li> <li>Pre operative assessment and preparation, counseling</li> <li>Intra operative care: Principles of open Heart Surgery, equipment, anesthesia, cardio pulmonary bi-pass</li> <li>Surgical procedures for coronary artery bypass grafting, recent advances and types of grafts, Angioplasty, Valve replacement or reconstruction, Cardiac transplant, Vascular surgeries, different stents and other recent advances.</li> </ul>
		<ul> <li>Thoracic surgery: labectomy, pnuemonectomy, tumours excision,</li> <li>Immediate Post-op care: Assessment post operative problems and interventions: Bleeding, cardiac temponade, low cardiac output, infarction, pericardial effusion, pleural effusion, pneumothorax, haemothorax, coagulopathy, thermal imbalance, inadequate ventilation/ perfusion, neurological problems, renal problems, psychological problems,</li> <li>Chest physiotherapy</li> <li>Nursing interventions, complementary therapy/ alternative system of medicine</li> <li>Intermediate and late post operative care after CABG, Valve surgery, others</li> <li>Follow up care</li> </ul>
XIII	5	<ul> <li>CARDIAC REHABILITATION AND PREVENTIVE MEASURES</li> <li>Process</li> <li>Physical evaluation</li> <li>Life style modification</li> <li>Physical conditioning for cardiovascular efficiency through exercise</li> <li>counseling</li> <li>follow up care</li> <li>Preventive measures</li> </ul>

		INTENSIVE CORONARY CARE UNIT INTENSIVE CARDIO THORACIC UNIT:
XIV	5	Quality assurance
7 •		Standard , policies , procedures, protocol,
		Infection control : standard safety measures
		Nursing audit
		Design ICCU / IRCU (ICTU)
		Staffing cardiac team ( respiratory team)
		Burn out syndrome
		<ul> <li>Nurses role in the management of ICCU and IRCU (ICTU)</li> </ul>
		Mobile coronary care unit
		Planning in-service educational program & teaching

## **Practical**

Clinical practice in medical surgical cardio thoracic wards, intensive care units, cardio thoracic OPD, community preventive cardiology and operation theaters

Total – 960 hrs

1 week – 30 hrs

6 hrs per day \* 5 days

S.No.	Dept./Unit	No. of Week	Total Hours
1	Cardio thoracic – medical	4	120
	- surgical	4	120
2	OTs (cardiac and thoracic )	4	120
3	Casuality	2	60
4	Diagnostic labs including cath labs	2	60
5	ICCU	4	120

6	ICU	4	120
7	CCU	4	120
8	Paediatric intensive	2	60
9	OPD	2	60
	Total	32 weeks	960

## **Evaluation Criteria:**

Theory:

Unit test I 25 marks

Prefinal 75marks

Seminar (1) 100 marks each

Topic Presentation(1) 50 marks

Journal Presentation(1) 25 marks

Written assignment 25 marks

Total marks 300marks (send university out of 25)

Practical:

Unit test I 25 marks

Prefinal 100 marks

Nursing procedure 50 marks

## Clinical assignments

Case study (2) 50x2=100
 Case presentation (2) 50x2=100
 Care plan (3) 50x3=150
 Clinical evaluation (2) 100x2=200

Total marks 825marks (send university out of 100)

100x1=100

## **University Examination:**

Project work(1)

Theory: 75

Practical: 100

## References

- Black M. Joyce, "Medical-surgical Nursing", Elsevier publication, 7th Editio.
- Brunner and suddarths, "textbook of Medical-surgical Nursing", Lippincott Williams's publication, 10<sup>th</sup> Edition.
- Davidson's, "Principle and practice of Medicine", Churchill publication, 20<sup>th</sup> Edition.
- Harcourt Brace, "A textbook of cardiovascular medicine", Saunders publication, 5<sup>th</sup> Edition.

- Ignatavicus workman, "Medical-surgical Nursing", Saunders publication, 2<sup>nd</sup> Edition
- Lewis, "Medical-surgical Nursing", Elsevier publication, 7th Edition.
- Petrica C. Seifert, "Perioperative Nursing Cardiac Surgery", Mosbey publication.
- Susan L. Wood, "Cardiac Nursing", Lippincott Williams's publication, 5<sup>th</sup> Edition.
- The Lippincott, "Manual of Nursing Practice", Lippincott Williams's publication, 2<sup>nd</sup> Edition
- Topol Eric J., "Manual of Cardiovascular Medicine", Lippincott Williams & Wilkins Publication, 3<sup>rd</sup> Edition.
- Tortora J. Gerard, "Principle of Anatomy and Physiology", Wiley publication, 11<sup>th</sup> Edition.
- Lippincott Williams's publication, 10<sup>th</sup> Edition.
- Davidson's, "Principle and practice of Medicine", Charuchill publication, 20<sup>th</sup> Edition.
- Harcourt Brace, "A textbook of cardiovascular medicine", Saunders publication, 5<sup>th</sup> Edition.
- Ignatavicus workman, "Medical-surgical Nursing", Saunders publication, 2<sup>nd</sup> Edition, 1<sup>st</sup> Vol.
- Petrica C. Seifert, "Perioperative Nursing Cardiac Surgery", Mosbey publication.

## Dr.D.Y.PATI COLLEGE OF NURSING BHOSARI, PUNE-18.

M Sc Nursing
Evaluation criteria for Case study

Name of the stude	nt:
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Topic:

## Date of submission:

Sr No	Criteria	Marks allotted	Marks obtained
1	Assessment	05	
2	Theoretical knowledge about disease	05	
3	Comparative study of patient's disease & book picture	10	
4	Management: Medical/surgical	05	
5	Nursing process	15	
6	Drug study	03	
7	Summary & conclusion including research evidence	05	
8	Bibliography	02	
	Total	50	

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Signature of student	Signature of evaluator
Date:	Date:

# Dr.D.Y.PATI COLLEGE OF NURSING BHOSARI , PUNE-18.

M Sc Nursing
Evaluation criteria for Care Plan

Name of the student:

Topic:	
Date of submission:	Field of placement:

Sr No	Criteria	Marks allotted	Marks obtained
1	Assessment	12	
2	Nursing diagnosis	3	
3	Goal	2	
4	Outcome criteria/Objective	2	
5	Nursing intervention	15	
6	rationale	03	
7	Evaluation	03	
8	Nurses notes	10	
	Total	50	

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Signature of student	Signature of evaluator
Date:	Date:

# Dr.D.Y.PATI COLLEGE OF NURSING, BHOSARI, PUNE-18.

M Sc Nursing
Evaluation criteria for Case presentation

Name of the student:

Name of the patient: Diagnosis: Ward: Date of presentation:

Sr	Criteria	Marks allotted	Marks obtained
No			
1	Subjective & objective data	08	
2	Problem & need identified & nursing care plan	15	
3	Effectiveness of presentation	05	
4	Corelation with patient & book, research evidence	10	
5	Use of A. V. aids	05	
6	Physical arrangement	02	
7	Group participation	03	
8	Bibliography	02	
	Total	50	

Remark

Signature of student Signature of evaluator Date Date

Dr.D.Y.PATI COLLEGE OF NURSING BHOSARI, PUNE-18.

**EVALUATION CRITERIA FOR SEMINAR PRESENTATION** 

Subject:	
	Date:
Name of student:	Time:
Group:	Maximum Marks: 100

S.No.	Criteria		Rating				
		1	2	3	4	5	-
	Content						
	Introduction						
	Organization of Content						
	Presentation of topic						
	Relevant examples						
	Relevant statistical data						
	Group participation						
	Control of group						
	AV Aids:						
	Appropriate to subject						
	Proper use of A/V Aids						
	Self explanatory						
	Attractive						
	Planning and preparation						
	Use of Modern technology						
	Physical facilities:						
	Environment						

Classroom preparation			
Over lay out			
Personal Appearance:			
Voice & clarity			
Mannerisms			
Conclusion			
References			

Remarks & signature of supervisor	Remarks	&	sign	ature	of	sup	erviso	r
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Signature of student:

# Dr.D.Y.PATI COLLEGE OF NURSING BHOSARI, PUNE-18.

M. Sc. Nursing

**Evaluation Criteria for Written Assignment** 

Total Marks = 25

S.N.	Criteria	Marks
1.	Content	10
2.	Organization	05
3.	Resources used	03
4.	Completeness	03
5.	Neatness	02
6.	Bibliography	02
	Total	25

Total:

Date & Signature of the Evaluator: Date & Signature of the student

# Dr.D.Y.PATI COLLEGE OF NURSING BHOSARI, PUNE-18.

# M.Sc. NURSING MEDICAL SURGICAL NURSING

## **EVALUATION CRITERIAN FOR PROJECT**

Name of the Student:	Name	of the	Student	:
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Date/ Time:

Name of the Evaluator:

S.N	Criteria	Maximum Score	Marks Obtained
I	Content	25	
II	Organization	10	
III	Presentation	15	
IV	Innovations	10	
V	Inclusion of Recent trends	10	
VI	Clinical Application	15	
VII	A V Aids	10	
VIII	Bibliography	05	
	Total	100	

# Dr.D.Y.PATI COLLEGE OF NURSING BHOSARI, PUNE-18.

## **CLINICAL EVALUATION: - COMPREHENSIVE NURSING CARE**

(Maximum Marks – 100 each area)

Name of the students

Year :- II semester M.Sc Nursing

**Duration of Experience:** 

SR.No.	Criteria	1	2	3	4	5
I	Understanding of patient as person					
	A.Approach					
	1.Rapport with patient / family members.					
	2.Collects significant information					

	B.Understanding of patient's health problems.			
	1.knowledge about disease condition.			
	2.knowledge about investigations.			
	3.knowledge about treatment.			
	4.knowledge about progress of the patient.			
II	Nursing care plan			
	A. Assessment of the condition of the patient .			
	1. History taking –past & present health and illness			
	2.specific observation of the patient			
	3. Nursing diagnosis			
	B. Development of the short – term & long term nursing care plans.			
	1.Indentification of all problems in the patient family.			
	2.Priritization 7 implementation of the plans.			
	3.Evaluation of the care given & re-planning			
III	Technical skill			
	1.Economical & safe adaptation to the situation & available facilities.			
	2.Implements the procedure with skill speed & completeness.			
IV	Recording & Reporting			
	1.Prompt, Precise , accurate & relevant.			
	2.Maintanance of clinical experience file.			
V	Health Teaching			
	1.Incidental/ Planned teaching with principles of teaching & learning.			
	2.Uses visual aids appropriately			

VI	Personality			
	1.Professional appearance (Uniform, dignity, tact fullness interpersonal relationship , ,Punctuality etc.			
	2.Sincerely, honesty & sense of responsibility			
	Total Marks			

Comment	s
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Signature of student

**Signature of Clinical Supervisor** 

# Dr.D.Y.PATI COLLEGE OF NURSING BHOSARI , PUNE-18. CLINICAL SPECIALITY – II

## MEDICAL SURGICAL NURSING - CRITICAL CARE NURSING

Placement: III Semester- T-75 hrs (I-IX unit)

Practical- 150 hrs

IV Semester- T-75 hrs (X- XVII unit)

Practical-810 hrs

**Hours of Instruction** 

Theory: 150 hours: C-3

Practical: 960 hours: C-16

Total: 1100 hours: C-19

### **Course Description**

This course is designed to assist students in developing expertise and in-to develop advanced skills for nursing intervention in caring for critically ill patients. It will enable the student to function as critical care nurses practitioner/ specialist. It will further enable the student to function as educator, manager and researcher in the field of Critical Care Nursing. Objectives

At the end of the course the students will be able to

- 1. Appreciate trends and issues related to Critical Care Nursing
- 2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of critically ill patient.
- 3. Describe the various drugs used in critical care and nurses responsibility
- 4. Perform physical, psychosocial & spiritual assessment
- 5. Demonstrate advance skills/competence in managing critically ili patients including Advance Cardiac Life Support
- 6. Demonstrate skill in handling various equipments/gadgets used critical care

- 7. Provide comprehensive care to critically ill patients
- 8. Appreciate team work & coordinate activities related to patient care
- 9. Practice infection control measures
- 10. Assess and manage pain
- 11. Identify complications & take appropriate measures
- 12. Discuss the legal and ethical issues in critical care nursing
- 13. Assist patients and their family to cope with emotional distress spiritual, grief and anxiety.
- 14. Assist in various diagnostic, therapeutic and surgical procedures.
- 15. Incorporate evidence based nursing practice and identify the areas of research in the field of critical care nursing
- 16. Identify the sources of stress and manage burnout syndrome among health care providers
- 17. Teach and supervise nurses and allied health workers
- 18. Design a layout of ICU and develop standards for critical care nursing practice.

Unit	Hours	Content
I	5	INTRODUCTION TO CRITICAL CARE NURSING
		Historical review- Progressive patient care(PPC)
		Review of anatomy and physiology of vital organs, fluid and
		electrolyte balance
		Concepts of critical care nursing
		Principles of critical care nursing
		Scope of critical care nursing
		Critical care unit set up including equipments supplies, use and
		care of various type of monitors & ventilators
		Flow sheets
II	10	CONCEPT OF HOLISTIC CARE APPLIED TO CRITICAL CARE NURSING PRACTICE
		Impact of critical care environment on patients:-
		Risk factors, Assessment of patients, Critical care psychosis,
		prevention & nursing care for patients affected with
		psycho physiological & psychosocial problems of critical care
		unit, Caring for the patient's family, family teaching The dynamics of healing
		in critical care unit:-therapeutic touch,
		Relaxation, Music therapy, Guided Imagery, acupressure
		Stress and burnout syndrome among health team members
III	15	REVIEW PHARMACOKINETICS
		Analgesics/Anti inflammatory agents
		Antibiotics, antiseptics
		Drug reaction & toxicity
		Drugs used in critical care unit (inclusive of ionotropic, life saving

		drugs)
		Drugs used in various body systems
		IV fluids and electrolytes
		Blood and blood components
		Principles of drug administration role of nurses and care of drugs
IV	5	PAIN MANAGEMENT
		Pain & Sedation in Critically ill patients
		Theories of pain, Types of pain, Pain assessment, Systemic
		responses to pain
		pain management-pharmacological and non-pharmacological
		measures Placebo effect
V	5	INFECTION CONTROL IN INTENSIVE CARE UNIT
		Nosocomial infection in intensive care unit; methyl resistant
		staphylococcus aureus (MRSA), Disinfection, Sterilization,
		Standard safety measures, Prophylaxis for staff
VI	10	GASTROINTESTINAL SYSTEM
		Causes, Pathophysiology, Clinical types, Clinical features,
		diagnosis, Prognosis, Management: Medical, Surgical and Nursing
		management of:-Acute Gastrointestinal Bleeding, Abdominal
		injury, Hepatic Disorders:-Fulminent hepatic failure, Hepatic
		encephalopathy, Acute Pancreatitis, Acute intestinal obstruction,
		perforative peritonitis
VII	10	RENAL SYSTEM
		Causes, pathophysiology, Clinicaltypes, Clinicalfeatures, diagnosis, Prognosis,

		Management: Medical, Surgical and Nursing
		management of:-Acute Renal Failure, Chronic Renal Failure, Acute
		tubular necrosis, Bladder trauma
		Management Modalities: Hemodialysis, Peritoneal Dialysis,
		Continuous Ambulatory Peritoneal Dialysis, Continuous arterio venus hemodialysis, Renal Transplant
		Tierriodiarysis, Keriai Transpiarie
VIII	10	NERVOUS SYSTEM
		Causes, pathophysiology, Clinical types, Clinical features,
		diagnosis, Prognosis, Management: Medical, Surgical and Nursing
		management of:-Common Neurological Disorders:-Cerebrovascular
		disease, Cerebrovas cular accident, Seizure disorders,
		GuilleinBarre-Syndrome, Myasthenia Gravis, Coma, Persistent
		vegetative state, Encephalopathy, Head injury, Spinal Cord injury
		Management Modalities: Assessment of Intracranial pressure,
		Management of intracranial hypertension, Craniotomy
		Problems associated with neurological disorders: Thermo
		regulation, Unconsciousness, Herniation syndrome
IX	5	ENDOCRINE SYSTEM
		Causes, Pathophysiology, Clinical types, Clinical features,
		diagnosis, Prognosis, Management: Medical, Surgical and Nursing
		Management of :-Hypoglycemia, Diabetic Ketoacidosis, Thyroid
		crisis, Myxoedema, Adrenal crisis, Syndrome of Inappropriate/
		hypersecretion of Antidiuretic Hormone (SIADH)
	1	1

Х	15	MANAGEMENT OF OTHER EMERGENCY CONDITIONS
		Mechanism of injury, Thoracic injuries, Abdominal injuries, pelvic
		fractures, complications of trauma, Head injuries
		Shock: Shock syndrome, Hypovolemic, Cardiogenic, Anaphylactic,
		Neurogenic and Septic shock
		Systemic inflammatory Response:The inflammatory response,
		Multiple organ dysfunction syndrome
		Disseminated Intravascular Coagulation
		Drug Overdose and Poisoning,
		Acquired Immunodeficiency Syndrome (AIDS)
		Ophthalmic: Eye injuries, Glaucoma, retinal detachment
		Ear Nose Throat: Foreign bodies, stridor, bleeding, quincy, acute
		allergic conditions
		Psychiatric emergencies;, suicide,
		crisis intervention
XI	20	CARDIOVASCULAR EMERGENCIES
		Principles of Nursing in caring for patient's with Cardiovascular
		disorders
		Assessment: Cardiovascular system: Heart sounds, Diagnostic
		studies:- Cardiac enzymes studies, Electrocardiographic
		monitoring, Holter monitoring, Stress test. Echo cardiography,
		Coronary angiography, Nuclear medicine studies
		Causes, Pathophysiology, Clinical types, Clinical features,
		Diagnostic Prognosis, Management : Medical, Surgical & Nursing

management of:-Hypertensive crisis, Coronary artery disease,
Acute Myocardial infarction, Cardiomyopathy, Deep vein
thrombosis, Valvular diseases, Heart block, Cardiac arrhythmias &
conduction disturbances, Aneurysms, Endocarditis, Heart failure
Cardio pulmonary resuscitation BCLS/ ACLS
Management Modalities: Thrombolytic therapy, Pacemaker —
temporary & permanent, Percutaneous transluminal coronary
angioplasty, Cardioversion, Intra Aortic Balloon pump monitoring,
Defibrillations, Cardiac surgeries, Coronary Artery Bypass Grafts
(CABG/MICAS), Valvular surgeries, HeartTransplantation,
Autologous blood transfusion, Radiofrequency Catheter Ablation

#### XII 15 **RESPIRATORY SYSTEM**

Acid-base balance & imbalance

Assessment: History & Physical Examination

Diagnostic Tests:Pulse Oximetry, End —Tidal Carbon Dioxide

Monitoring, Arterial blood gas studies, chest radiography,

pulmonary Angiography, Bronchoscopy, Pulmonary function Test,

Ventilation perfusion scan, Lung ventilation scan

Causes Pathophysiology, Clinical types, Clinical features,

Prognosis,Management:Medical,SurgicalandNursing

management of Common pulmonary disorders:-Pneumonia, Status

asthmaticus, interstitial drug disease, Pleural effusion, Chronic

obstructivepulmonarydisease,Pulmonarytuberculosis,

Pulmonary edema, Atelectasis, Pulmonary embolism, Acute

		respiratory failure, Acute respiratory distress syndrome (ARDS),
		Chest Trauma Haemothorax, Pneumothorax
		Management Modalities:-Airway Management
		Ventilatory Management:-Invasive, non- invasive, long term
		mechanical ventilations
		Bronchial Hygiene:-Nebulization, deep breathing exercise, chest
		physiotherapy, postural drainage, Inter Costal Drainage, Thoracic
		surgeries
XIII	6	BURNS
		Clinical types, classification, pathophysiology, clinical features,
		assessment, diagnosis, prognosis, Management: Medical, Surgical
		& Nursing management of burns
		Fluid and electrolyte therapy – calculation of fluids and its
		administration
		Pain management
		Wound care
		Infection control
		Prevention and management of burn complications
		Grafts and flaps
		Reconstructive surgery
		Rehabilitation
XIV	5	OBSTETRICAL EMERGENCIES
		Causes, Pathophysiology, Clinical types, clinical features,
		diagnostic Prognosis, Management: Medical, Surgical and Nursing

		management of :Antepartum haemorrhage, Preeclampsia,
		eclampsia, Obstructed labour and ruptured uterus, Post partum
		haemorrhage, Peurperal sepsis, Obstetrical shock
XV	10	NEONATAL PAEDIATRIC EMERGENCIES
		Causes, pathophysiology, Clinical types, Clinical features,
		diagnostic, Prognosis, Management: medical, surgical and Nursing
		management of
		Neonatal emergencies
		Asphyxia Neonatarum, Pathological Jaundice in Neonates,
		Neonatal seizures, Metabolic disorders, Intra cranial Hemorrhage,
		NeonatalSepsis,RDS/HMD(RespiratoryDistress
		Syndrome/Hyaline Membrane Disease), Congenital disorders:-
		Cyanotic heart disease, tracheo oesophageal fistula, congenital
		hypertropic pyloric stenosis, imperforate anus
		Pediatric emergencies
		Dehydration, Acute broncho pneumonia, Acute respiratory distress
		syndrome, Poisoning, Foreign bodies, seizures, traumas, Status
		asthmaticus

XVI	2	LEGAL AND ETHICAL ISSUES IN CRITICAL CARE-NURSE'S ROLE
		Brain death
		Organ donation & Counselling
		Do Not Resuscitate(DNR)
		Euthanasia
		Living will
		Quality assurance
		Standards, Protocols, Policies, Procedures
		Infection control; Standard safety measures
		Nursing audit
		Staffing
		Design of ICU/CCU

# **Practical**

Total = 960 Hours

1 Week = 30 Hours

SR.NO.	Dept.Unit	No.of Weeks	Total Hours
1	Burns ICU	2	60 Hours
2	Medical ICU	8	240 Hours
3	Surgical ICU	12	360 Hours
4	CCU	2	60 Hours
5	Emergency Department	3	90 Hours
6	Dialysis Unit	1	30 Hours
7	Transplant Room	2	60 Hours
8	Paediatric/ NICU	2	60 Hours

Total	32 Weeks	960 Hours

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## **ESSENTIAL CRITICAL CARE NURSING SKILLS**

I. Procedures Observe
-----------------------

- 1.CT Scan
- 2.MRI
- 3.EEG
- 4. Hemodialysis
- 5. Endoscopic Retrograde cholangio Pancreaticogram(ERCP)
- 6. Heart/ Neuro/GI./ Renal Surgeries

## **II. Procedures Assisted**

- 1. Advanced life support system
- 2.Basic cardiac life support
- 3. Arterial line/arterial pressure monitoring/blood taking
- 4. Arterial blood gas
- 5. ECG recording
- 6. Blood transfusion
- 7. IV cannulation therapy

- 8. Arterial Catheterization
- 9. Chest tube insertion
- 10. Endotracheal intubations
- 11. Ventilation
- 12.Insertion of central line/cvp line
- 13. Connecting lines for dialysis

#### **III. Procedure Performed**

- 1. Airway management
  - a. Application of oropharyngeal airway
  - b. CPAP (Continuous Positive Airway pressure)
  - c. Care of tracheostomy
  - d. Endotracheal extubation
- 2. Cardiopulmonary resuscitation, Basic cardiac life support, ECG
- 3. Monitoring of critically ill patients clinically with monitors, capillary refill time (CRT) assessment of jaundice, ECG
- 4. Gastric lavage
- 5. Assessment of critically ill patients

Identification & assessment of risk factors, Glasgow coma scale and dolls eye movement, arterial pressure monitoring, cardiac output/pulmonary artery pressure monitoring, and detection of

life threatening abnormalities

- 6. Admission & discharge of critically ill patients
- 7. Nutritional needs gastrostomy feeds, pharyngeal feeds, jejunostomy feeds, TPN, formula preparation & patient education
- 8. Assessment of patient for alteration in blood sugar levels monitoring blood sugar levels periodically & administering insulin periodically
- 9. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, use of insulin syringes tuberculin, monitoring fluid therapy, blood administration.
- 10. Setting up dialysis machine and starting, monitoring and closing dialysis
- 11. Procedures for prevention of infections:

Hand washing, disinfection & sterilization surveillance and fumigation universal precautions.

- 12. Collection of specimen.
- 13. Setting, use & maintenance of basic equipment, ventilator,O2 analyzer, monitoring equipment, transducers, defibrillator, infusion & syringe pumps, centrifuge machine.

#### **Evaluation Criteria:**

Theory:

Unit test I 25 marks

Prefinal 75marks

Seminar (1) 100 marks each

Topic Presentation(1) 50 marks

Journal Presentation(1) 25 marks

Written assignment 25 marks

Total marks 300marks (send university out of 25)

#### **Practical:**

Unit test I 25 marks

Prefinal 100 marks

Nursing procedure 50 marks

Clinical assignments

• Case study (2) 50x2=100

• Case presentation (2) 50x2=100

• Care plan (3) 50x3=150

• Clinical evaluation (2) 100x2=200

• Project work(1) 100x1=100

Total marks 825marks (send university out of 100)

#### **University Examination:**

Theory: 75

Practical: 100

# M Sc Nursing Evaluation criteria for Case study

Date o	f submission:		
Sr No	Criteria	Marks allotted	Marks obtained
1	Assessment	05	
2	Theoretical knowledge about disease	05	
3	Comparative study of patient's disease & book picture	10	
4	Management: Medical/surgical	05	
5	Nursing process	15	

03

05

02

50

Remark

7

8

Name of the student:

Drug study

Bibliography

Summary & conclusion

including research evidence

Topic:

Signature of Student	Signature of Evaluator
Date:	Date:

Total

# M Sc Nursing Evaluation criteria for Care Plan

Name of the student:	
Topic:	
Date of submission:	Field of placement:

Sr	Criteria	Marks allotted	Marks obtained
No			
1	Assessment	12	
2	Nursing diagnosis	3	
3	Goal	2	
4	Outcome criteria/Objective	2	
5	Nursing intervention	15	
6	rationale	03	
7	Evaluation	03	
8	Nurses notes	10	
	Total	50	

Remark

Signature of Student	Signature of Evaluator
Date:	Date:

## M Sc Nursing

## Evaluation criteria for Case presentation

Name of the student: Name of the patient: Diagnosis: Ward:

Date of presentation:

Sr	Criteria	Marks allotted	Marks obtained
No			
1	Subjective & objective data	08	
2	Problem & need identified & nursing care plan	15	
3	Effectiveness of presentation	05	
4	Corelation with patient & book, research evidence	10	
5	Use of A. V. aids	05	
6	Physical arrangement	02	
7	Group participation	03	
8	Bibliography	02	
	Total	50	

Remark

Signature of Student

Signature of Evaluator

Date:	Date:
Date.	Date.

#### **EVALUATION CRITERIA FOR SEMINAR PRESENTATION**

Subject:	
	Date:
Name of student:	Time:
Group:	Maximum Marks: 100

S.No.	Criteria		Rating			Remarks	
		1	2	3	4	5	-
1.	Content						
	Introduction						
2.	Organization of Content						
3.	Presentation of topic						
4.	Relevant examples						
5.	Relevant statistical data						
6.	Group participation						
7.	Control of group						
8.	AV Aids:						
	Appropriate to subject						
9.	Proper use of A/V Aids						

1.1			
11.	Attractive		
12.	Planning and preparation		
13.	Use of Modern technology		
14.	Physical facilities:		
	Environment		
15.	Classroom preparation		
16.	Over lay out		
17.	Personal Appearance:		
	Voice & clarity		
18.	Mannerisms		
19.	Conclusion		
20.	References		

Domarko	Q.	Signature	٦f	Cunar	vicor
remarks	α	Signature	UΙ	Suber	VISUI.

Signature of Student:

## M. Sc. Nursing

## **Evaluation Criteria for Written Assignment**

Total Marks = 25

S.N.	Criteria	Marks
1.	Content	10
2.	Organization	05
3.	Resources used	03
4.	Completeness	03
5.	Neatness	02
6.	Bibliography	02
	Total	25

Remarks: - Total:-

Date & Signature of the Evaluator: Date & Signature of the Student

#### **CLINICAL EVALUATION: - COMPREHENSIVE NURSING CARE**

(Maximum Marks – 100 each area)

Name of the Students

Year :- II semester M.Sc Nursing

**Duration of Experience:** 

SR.No.	Criteria	1	2	3	4	5
I	Understanding of patient as person					
	A.Approach					
	1.Rapport with patient / family members.					
	2.Collects significant information					
	B.Understanding of patient's health problems.					
	1.knowledge about disease condition.					
	2.knowledge about investigations.					
	3.knowledge about treatment.					
	4.knowledge about progress of the patient.					
II	Nursing care plan					
	A.Assessment of the condition of the patient .					
	1. History taking –past & present health and illness					
	2.specific observation of the patient					
	3. Nursing diagnosis					
	B.Development of the short – term & long term nursing care plans.					

	1.Indentification of all problems in the patient family.			
	2.Priritization 7 implementation of the plans.			
	3.Evaluation of the care given & re-planning			
III	Technical skill			
	1.Economical & safe adaptation to the situation & available facilities.			
	2.Implements the procedure with skill speed & completeness.			
IV	Recording & Reporting			
	1.Prompt, Precise , accurate & relevant.			
	2.Maintanance of clinical experience file.			
V	Health Teaching			
	1.Incidental/ Planned teaching with principles of teaching & learning.			
	2.Uses visual aids appropriately			
VI	Personality			
	1.Professional appearance (Uniform, dignity, tact fullness			
	interpersonal relationship , ,Punctuality etc.			
	2.Sincerely, honesty & sense of responsibility			
	Total Marks			

C	m	m	Δ	ni	tc

**Signature of Student** 

**Signature of Clinical Supervisor** 

#### **CLINICAL SPECIALITY-II**

#### MEDICAL SURGICAL NURSING- ONCOLOGY NURSING

Placement: III Semester- T-75 hrs (I-IX unit)

Practical- 150 hrs

IV Semester- T-75 hrs (X- XV unit)

Practical-810 hrs

**Hours of Instruction** 

Theory: 150 hours: C-3

Practical: 960 hours: C-16

**Total: 1100 hours: C-19** 

#### **Course Description**

This course is designed to assist students in developing expertise and in- depth understanding in the field of oncology Nursing. It will help students to develop advanced skills for nursing intervention in various oncological conditions. It will enable the student to function as oncology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of oncology nursing

#### Objectives

- 1. Explain the prevention, screening and early detection of cancer
- 2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of oncological disorders of various body systems

- 3. Describe the psychosocial effects of cancer on patients and families
- 4. Demonstrate skill in administering/assisting in various treatment modalities used for patients with cancer
- 5. Apply nursing process in providing holistic care to patients with cancer
- 6. Apply specific concepts of pain management
- 7. Appreciate the care of death and dying patients and value of bereavement support
- 8. Describe the philosophy, concept and various dimensions of palliative care
- 9. Appreciate the role of alternative systems of medicine in care of cancer patients
- 10. Appreciate the legal & ethical issues relevant to oncology nursing
- 11. Recognize and manage Oncological emergencies
- 12. Counsel the patients with cancer and their families
- 13. Incorporate evidence based nursing practice and identify the areas of research in the field of oncology nursing
- 14. Recognize the role of oncology nurse practitioner as a member of oncology team
- 15. Collaborate with other agencies and utilize resources in caring for cancer patients.
- 16. Teach and supervise nurses and allied health workers.
- 17 Design a layout and develop standards for management of oncology units/hospitals and nursing care.

Hours	Content
4	INTRODUCTION
	Epidemiology-Incidence, Prevalence – Global, National, State and
	Local
	Disease burden, concept of cancer, risk factors

		Historical perspectives
		Trends and issues
		Principles of cancer management
		Roles and responsibilities of oncology nurse
II	5	THE NATURE OF CANCER
		Normal cell biology
		The Immune system
		Pathological and pathophysiological changes in tissues
		Biology of the cancer cell
		Clone formation Transformation
		• Tumor stem lines
		Structure of a solid tumor
		Products produced by the tumor
		Systemic effects of tumor growth
III	4	ETIOLOGY OF CANCER
		Carcinogenesis,
		Theories of cancer causation
		Risk factors
		Carcinogens – genetic factors, chemical carcinogens, radiation,
		viruses, Immune system failure, rapid tissue proliferation
		Hormone changes, diet, emotional factors.
IV	10	DIAGNOSTIC EVALUATION
		Health assessment: History taking, physical examination,

		Staging and grading of tumors,
		TNM Classification
		Common diagnostic tests
		Blood investigation: Haemetological, Bio-chemical, Tumor
		markers, Hormonal assay
		Cytology:Fine needle aspiration cytology(FNAC)
		Histopathology: Biopsy
		Radiological assessment: MRI, Ultrasound, Computed
		tomography, Mammography, Positron emission
		tomography(PET), Radio nuclide imaging, Functional
		metabolism imaging
		Endoscopies Nurses responsibilities in diagnostic measures
	10	LEVELS OF PREVENTION AND CARE
		Primary prevention – Guidelines for cancer detection, general
		measures, Warning signs of cancer,
		Self examination-Oral, Breast, Testicular
		Secondary prevention – early diagnosis.
		Screening
		Tertiary prevention – disability limitation,
		Rehabilitation: Mobility, Speech, Bowel and bladder, Ostomies etc
		Patient and family education,
		Discharge instruction, follow-up care and use of community
		resources.
VI		CANCER TREATMENT MODALITIES AND NURSE'S ROLE

#### Surgery

- Principles of surgical oncology
- Current surgical strategy,
- Determining surgical risk
- Special surgical techniques
- Pre-intra-postoperative nursing care
- Acute and chronic surgical complications
- Future directions and advances

#### Chemotherapy

- Principles and classification of chemotherapeutics
- Pharmacology of antineoplastic drugs- Mechanism of action,
   Absorption, protein binding, Bio-transformation, excretion,
   common side effects, drug toxicity
- Calculating drug doses,
- Therapeutic response to chemotherapy-Tumor variables, drug resistance,
- Safety precautions

#### **Radiation Therapy**

- Physics of radiotherapy
- Types of ionizing rays
- Radiation equipments:Linear accelerator, cobalt,
   Implants,Isotopes,
- Types of therapies: Oral, Brachy therapy, tele therapy, selectron therapy

- Effects of radiation on the body tissue,
- Radiation biology cell damage hypoxic cells, alteration of tumor kinetics.
- Approaches to radiation therapy -
- External radiotherapy
- Internal radiotherapy unsealed,
- Sealed sources.
- Effectiveness of radiotherapy-Radiosensitivity, treatment effects
- Complications of radiotherapy
- Radiation safety: Standards of Bhaba Atomic Research
   Centre(BARC)

#### **Bone Marrow Transplantation / Stem Cell Transplantation**

- Types, indications, transplantation procedure, complications and nursing managment
- Types and donor sources
- Preparation and care of donor and recipient
- Bone marrow bank
- Legal and ethical issues

#### Immunotherapy (Biotherapy)

- Concepts and principles
- Classification of agents
- Treatment and applications

#### Gene Therapy

• Current Concepts and practices

	Alternative and Complementary Therapies
	Current practices
10	PAIN MANAGEMENT:- THEORIES, TYPES AND
	Nature of cancer pain
	Pathophysiology of pain
	Pain threshold
	Assessment of pain
	Principles of cancer pain control
	Pharmacological: Opioid and non-opioid analgesic therapy
	Patient controlled analgesia(PCA)
	Other invasive techniques of pain control
	Recent developments in Cancer pain
	Non- Pharmacological pain relief technique-
	Complementary therapies(Music, massage, meditation,
	relaxation techniques, biofeed back etc)
	Psychological intervention in pain control
	Alternative system of medicines
	Role of nurse
5	PALLIATIVE CARE
	Definition and scope, philosophy
	Concept and elements of palliative care
	Global and Indian perspective of palliative care
	Quality of life issues
	Communication skill

	l	
		Nursing perspective of palliative care and its elements
		Home care
		Hospice care
		Role of nurse in palliative care
IX	2	INFECTION CONTROL:
		Process of infection, risk of hospitalization, nosocomial
		infections- prevention and control of infection in acute, long
		term care facility and community based care
		Standard safety measures
Х	30	NURSING CARE OF PATIENTS WITH SPECIFIC MALIGNANT
		DISORDERS
		Malignancies of G.I. system-oral, oesophagus, stomach, rectal,
		liver & pancreas, care of ostomies/stoma
		Respiratory malignancies
		Genito urinary system malignancies- prostate Bladder, renal
		testicular malignancies,
		Gynecological malignancies-cervix, uterus, ovary
		Hematological malignancies-Lymphomas, Leukemias.
		Malignancies of musculoskeletal system
		Endocrine malignancies
		Skin
		Head and Neck -brain tumors
		Other malignancies – Breast cancer, AIDS related Malignancies

		(Kaposi's Sarcoma)
ΧI	10	PAEDIATRIC MALIGNANCIES
		Leukemia, Lymphoma, Neuro- blastoma
		Wilm's tumor, Soft tissue sarcoma, Retinoblastoma
		Nursing Management of children with Paediatric Malignancies
XII	15	NURSING MANAGEMENT OF PHYSIOLOGICAL CONDITIONS AND SYMPTOMS
		OF CANCER PATIENT
		Nutrition: - effects of cancer on nutritional Status and its consequences:-Anemia,Cachexia,Xerostomia,mucositis,
		Dysphagia, nausea and vomiting, constipation, diarrhoea,
		electrolyte imbalances, taste alterations
		Impaired mobility: Decubitus ulcer, pathologic fractures,
		thrombophlebitis, pulmonary embolism, contractures, footdrop
		Other symptoms
		Dyspepsia & hiccup, dyspnoea
		intestinal obstruction,
		Fungating wounds
		Anxiety & depression, insomnia
		Lymph edema
		Impact of cancer on sexuality:
		Effects of radiotherapy/ chemotherapy/surgery on sexuality of the
		cancer patient
		Nursing management of cancer patients experiencing sexual

		dysfunction
		Sexual counseling
XIII	10	CANCER EMERGENCIES
		Disseminated intravascular coagulation(DIC),
		Malignant pleural effusion
		Neoplastic cardiac tamponade and septic shock spinal cord
		compression
		Superior venacava syndrome
		Metabolic emergency: hyper and hypo calcemia
		Surgical emergency
		Urological emergency
		Hemorrhage
		Organ obstruction
		Brain metastasis
		Nurses role in managing oncologic emergencies
	l	

XIV	8	PSYCHO-SOCIAL ASPECTS OF NURSING CARE
		Psychological responses of patients with cancer
		Psychosocial assessment –
		Crisis intervention, coping mechanisms
		Stress management, spiritual/cultural care and needs
		Counseling: individual and family
		Maximizing quality of life of patient and family
		Ethical, moral and legal issues-
		End of life care
		Grief and grieving process
		Bereavement support
		Care of Nurses who care for the dying.
XV	2	LAYOUT AND DESIGN OF AN ONCOLOGY INSTITUTION/ WARD, OPD,
		CHEMOTHERAPY UNIT, BONE MARROW TRANSPLANTATION UNIT, PAIN
		CLINIC ETC
		Practice Standards of oncology nursing
		Policies and Procedures
		Establishing Standing orders and Protocols
		Quality Assurance Programme in oncology units
		Nursing audit
L	I	

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- 31. Vogel/Bevers-Handbook of Breast Cancer Risk assessment: Evidence based Guidelines for Evaluation, Prevention Counseling & Treatment
- 32. Johnson/Gross- Handbook of Oncology Nursing (3<sup>rd</sup> ed) king/Hinds Quality of Life: From Nursing and Patient Perspective
- 33. Brunner/Siddarth Text Book of Medical Surgical Nursing. 2004(10<sup>th</sup> ed.)
- 34. Sorresen/Luckman-Medical Surgical Nursing(1994) (5<sup>th</sup> ed)

Jourals: 1 Oncology nursing news letter.

#### **Evaluation Criteria:**

#### Theory:

Unit test I 25 marks

Prefinal 75marks

Seminar (1) 100 marks each

Topic Presentation(1) 50 marks

Journal Presentation(1) 25 marks

Written assignment 25 marks

Total marks 300marks (send university out of 25)

#### Practical:

Unit test I 25 marks

Prefinal 100 marks

Nursing procedure 50 marks

Clinical assignments

• Case study (2) 50x2=100

• Case presentation (2) 50x2=100

• Care plan (3) 50x3=150

• Clinical evaluation (2) 100x2=200

• Project work(1) 100x1=100

Total Marks 825 Marks (send university out of 100)

### **University Examination:**

Theory: 75

Practical: 100

# M.Sc Nursing Evaluation criteria for Case study

Name of the student:	
Topic:	
Date of submission:	

Sr. No	Criteria	Marks allotted	Marks obtained
1	Assessment	05	
2	Theoretical knowledge about disease	05	
3	Comparative study of patient's disease & book picture	10	
4	Management: Medical/surgical	05	
5	Nursing process	15	
6	Drug study	03	
7	Summary & conclusion including research evidence	05	
8	Bibliography	02	
	Total	50	

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Signature of Student	Signature of Evaluator
Date:	Date:

# M Sc Nursing Evaluation criteria for Care Plan

Name of the student:	
Topic:	
Date of submission:	Field of placement:

Sr No	Criteria	Marks allotted	Marks obtained
110			
1	Assessment	12	
2	Nursing diagnosis	3	
3	Goal	2	
4	Outcome criteria/Objective	2	
5	Nursing intervention	15	
6	rationale	03	
7	Evaluation	03	
8	Nurses notes	10	
	Total	50	

Signature of student	Signature of evaluator
Date:	Date:

Name of the student: Name of the patient:

Diagnosis:

7

8

Remark:

Group participation

Total

Bibliography

## M Sc Nursing

## Evaluation criteria for Case presentation

Ward:			
Date of p	presentation:		
Sr. No	Criteria	Marks allotted	Marks obtained
1	Subjective & objective data	08	
2	Problem & need identified & nursing care plan	15	
3	Effectiveness of presentation	05	
4	Corelation with patient & book, research evidence	10	
5	Use of A. V. aids	05	
6	Physical arrangement	02	

03

02

50

Signature of Student Date:	Signature of Evaluator Date:

#### **EVALUATION CRITERIA FOR SEMINAR PRESENTATION**

Subject:	
	Date:
Name of student:	Time:
Group:	Maximum Marks: 100

S.No.	Criteria		Rating			Remarks	
		1	2	3	4	5	
1.	Content						
	Introduction						
2.	Organization of Content						
3.	Presentation of topic						
4.	Relevant examples						
5.	Relevant statistical data						
6.	Group participation						
7.	Control of group						
8.	AV Aids:						
	Appropriate to subject						
9.	Proper use of A/V Aids						

10.	Self explanatory		
11.	Attractive		
12.	Planning and preparation		
13.	Use of Modern technology		
14.	Physical facilities:		
	Environment		
15.	Classroom preparation		
16.	Over lay out		
17.	Personal Appearance:		
	Voice & clarity		
18.	Mannerisms		
19.	Conclusion		
20.	References		

Remarks	ρ,	Signature	٥f	Supervisor:
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Signature of Student:

# M. Sc. Nursing

## **Evaluation Criteria for Written Assignment**

Total Marks = 25

S.N.	Criteria	Marks
1.	Content	10
2.	Organization	05
3.	Resources used	03
4.	Completeness	03
5.	Neatness	02
6.	Bibliography	02
	Total	25

Remarks: - Total:-

Date & Signature of the Evaluator: Date & Signature of the Student

#### **CLINICAL EVALUATION: - COMPREHENSIVE NURSING CARE**

(Maximum Marks – 100 each area)

Name of the students

Year :- II semester M.Sc Nursing

**Duration of Experience:** 

SR.No.	Criteria	1	2	3	4	5
I	Understanding of patient as person					
	A.Approach					
	1.Rapport with patient / family members.					
	2.Collects significant information					
	B.Understanding of patient's health problems.					
	1.knowledge about disease condition.					
	2.knowledge about investigations.					
	3.knowledge about treatment.					
	4.knowledge about progress of the patient.					
II	Nursing care plan					
	A.Assessment of the condition of the patient .					
	1. History taking –past & present health and illness					
	2.specific observation of the patient					
	3.Nursing diagnosis					

	B.Development of the short – term & long term nursing care plans.			
	1.Indentification of all problems in the patient family.			
	2.Priritization 7 implementation of the plans.			
	3.Evaluation of the care given & re-planning			
III	Technical skill			
	1.Economical & safe adaptation to the situation & available facilities.			
	2.Implements the procedure with skill speed & completeness.			
IV	Recording & Reporting			
	1.Prompt, Precise , accurate & relevant.			
	2.Maintanance of clinical experience file.			
V	Health Teaching			
	1.Incidental/ Planned teaching with principles of teaching & learning.			
	2.Uses visual aids appropriately			
VI	Personality			
	1.Professional appearance (Uniform, dignity, tact fullness			
	interpersonal relationship , ,Punctuality etc.			
	2.Sincerely, honesty & sense of responsibility			
	Total Marks			

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Signature of Student

Signature of Clinical Supervisor

**Clinical Experience** 

Sr.No.	Dept./ Unit	No. of Week	Total Hours	
1	Medical Oncology ward	6	180 Hours	
_	medical elicelegy ward		100 110015	
2	Surgical Oncology ward	6	180 Hours	
3	Bone marrow transplantation Unit	2	60 Hours	
4	Operation Theatre	2	60 Hours	
5	Radiotherapy Unit	2	60 Hours	
6	Chemotherapy Unit	4	120 Hours	
7	Out patient department and pain clinic	2	60 Hours	
8	Pediatric Oncology ward	2	60 Hours	
9	Palliative Care ward	2	60 Hours	
10	Community oncology	2	60 Hours	
11	Hospice	1	30 Hours	

12	Other field visits	1	30 Hours
13	Total	32 Weeks	960 Hours

#### **Procedures Observed**

- 1. CT Scan
- 2. MRI
- 3. PET Scan(Positron Emission Tomography)
- 4. Ultra sound
- 5. Mammography
- 6. Radio Nuclide Imaging
- 7. Bone Scan
- 8. Thyroid Function Test
- 9. Functional and Metabolic Imaging
- 10. Transportation of radioactive materials
- 11. Others

#### **Procedures Assisted**

- 1. IV cannulation Open method
- 2. Chemotherapy
- 3. Radiotherapy Brachytherapy Low Density Radiation, High Density Radiation.
- 4. Interstitial implantation
- 5. Bio-therapy and Gene therapy
- 6. Teletherapy Treatment planning
- 7. Bone marrow aspiration and biopsy
- 8. Biopsy tissue
- 9. FNAC Fine Needle Aspiration Cytology and biopsy
- 10. Advance Cardiac life support
- 11. Endotracheal intubation

- 12. Defibrillation Ventilation
- 13. Tracheostomy
- 14. Thoracentesis
- 15. Paracentesis
- 16. Lumbar Puncture
- 17. Arterial Blood Gas
- 18. Nerve Block
- 19. Chest tube insertion
- 20. Intercostal drainage
- 21. CVP monitoring

#### **Procedure Performed**

- 1. Screening for cancer
- 2. Assessment of pain
- 3. Assessment of Nutritionsl status
- 4. Care of Tracheostomy
- 5. Endotracheal intubation
- 6. Gastric gavage
- 7. Pap smear
- 8. IV cannulation
- 9. Care of surgical flaps
- 10. Care of ostomies
- 11. Blood transfusion and component therapy
- 12. Counseling
- 13. Practice standard safety measures
- 14. Care of dead body and mortuary formalities

#### Other procedures

(As per the institutional protocol):

1. Alternative therapies

#### **CLINICAL SPECIALITY - II**

#### MEDICAL SURGICAL NURSING- NEUROSCIENCES NURSING

Placement: III Semester- T-75 hrs (I-IX unit)

Practical- 150 hrs

IV Semester- T-75 hrs (X- XIX unit)

Practical-810 hrs

**Hours of Instruction** 

Theory: 150 hours: C-3

Practical: 960 hours: C-16

Total: 1100 hours: C-19

**Course Description** 

This course is designed to assist students in developing expertise and in-depth knowledge in the field of neurology and neurosurgical Nursing. It will help students to develop advanced skills for nursing intervention in caring for patients with neurological and neurosurgical disorders. It will enable the student to function as neuroscience nurse practitioner/ specialist. It will further enable the student to function as educator, manager and researcher in the field of neurology and neurosurgical Nursing.

#### Objectives

At the end of the course the students will be able to

- Appreciate trends and issues related to neurology and neurosurgical Nursing.
- 2. Review the anatomy and physiology of nervous system
- **3.** Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of patients with neurological and neurosurgical disorders
- **4.** Perform neurological assessment and assist in diagnostic procedures
- 5. Describe the concepts and principles of neuroscience nursing
- **6.** Describe the various drugs used in neurosciences and nurses responsibility
- **7.** Assist in various therapeutic and surgical procedures in neuroscience nursing
- **8.** Demonstrate advance skills/competence in managing patients with neurological and neurosurgical disorder following nursing process approach
- 9. identity psychosocial problems of patients with disabilities and assist patients and their family to cope with emotional distress, spiritual,

grief and anxiety

- 10. Participate in preventive, promotive and rehabilitative services for neurological and neurosurgical patients.
- 11. Explain the legal and ethical issues related to brain death, organ transplantation and practice of neuroscience nursing
- 12. Incorporate evidence based nursing practice and identify the areas of research in the field of neuroscience nursing

- 13. Organise and conduct inservice education program for nursing personnel.
- 14. Develop standards of care for quality assurance in neuroscience nursing practice
- 15. Identify the sources of stress and manage burnout syndrome among health care providers
- 16. Teach and supervise nurses and allied health workers.
- 17. Plan and develop physical layout of neuro intensive care unit

## **Course Content**

Unit	Hours	Content		
I	5	INTRODUCTION		
		Introduction to neuroscience(neurological and neurosurgical)		
		nursing		
		History-Development in neurological and neurosurgical		
		nursing, Service & education		
		Emerging trends and issues in neurology and neuro surgery		
		and its implication to nursing.		
		neurological and neurosurgical problems —		
		Concepts, principles and nursing perspectives		
		Ethical and legal issues		
		Evidence based nursing and its application in neurological and		
		neurosurgical nursing		

II	5	EPIDEMIOLOGY
		Major health problems-
		Risk factors associated with neurological conditions- Hereditary,
		Psychosocial factors, smoking, alcoholism, dietary habits, cultural
		and ethnic considerations, occupational and infections.
		Health promotion, disease prevention, life style modification and
		its implications to nursing
		Alternate system of medicine/complementary therapies
III	10	REVIEW OF ANATOMY AND PHYSIOLOGY
		Embryology
		Structure and functions of Nervous system- CNS, ANS, cereberal
		circulation, cranial and spinal nerves and reflexes, motor and
		sensory functions
		Sensory organs
IV	15	ASSESSMENT AND DIAGNOSTIC MEASURES
		Assessment
		History taking
		Physical assessment, psychosocial assessment
		Neurological assessments, Glasgow coma scale interpretation &
		its relevance to nursing.
		Common assessment abnormalities
		Diagnostic measures
		Cerebro spinal fluid analysis
		Radiological studies-Skull and spine X-ray Cerebral

		Angiography, CT Scan, Single Photon Emission Computer
		Tomography(SPECT), MRI (Magnetic Resonance Imaging),
		MRA, MRS, Functional MRI, Myelography, PET (Positron
		Emission Test), Interventional radiology.
		Electorgraphic studies- Electro encephalo graphy, MEG, EMG,
		video EEG,
		Nerve conduction studies-Evoked potentials, visual evoked
		potentials, brainstemauditory evoked potentials,
		somatosensory evoked potentials
		Ultrasound studies-Carotid duplex, transcranial Doppler
		sonography,
		Immunological studies
		Biopsies – muscle, nerve and Brain.
		Interpretation of diagnostic measures
		Nurse's role in diagnostic tests
V	5	MEETING NUTRITIONAL NEEDS OF NEUROLOGICAL PATIENTS
		Basic nutritional requirements
		Metabolic changes following injury and starvation
		Nutritional assessment
		Common neurological problems that interfere with nutrition and
		strategies for meeting their nutritional needs
		Special metabolic and electrolyte imbalances
		Chronic fatigue syndrome
VI	5	DRUGS USED IN NEUROLOGICAL AND NEUROSURGICAL DISORDERS
<u> </u>	<u> </u>	1

		Classification	
		Indications, contraindications, actions and effects, toxic effects	
		Role of nurse	
VII	10	TRAUMATIC CONDITIONS.	
		Causes, pathophysiology, Clinical types, Clinical features,	
		diagnosis, Prognosis, Management: medical, surgical and Nursing	
		management of	
		Cranio cerebral injuries.	
		Spinal & Spinal cord injuries.	
		Peripheral nerve injuries.	
		Unconsciousness	
VIII	10	CEREBROVASCULAR DISORDERS:	
		Causes, pathophysiology, Clinical types, Clinical features,	
		diagnosis, Prognosis, Management: medical, surgical and Nursing	
		management of	
		<ul><li>Stroke &amp; arterio venous thrombosis.</li><li>Haemorrhagic embolus.</li></ul>	
		Cerebro vascular accidents.	
		Intracranial aneurysm.	
		Subarchnoid Haemorrhage.	
		Arterio venous fistula.	
		Brain tumours	
		Diseases of cranial nerves;Trigiminal neuralgia, Facial palsy,	
		Bulbar palsy.	

IX	10	DEGENERATING AND DEMYELINATING DISORDERS			
		Causes, pathophysiology, Clinical types, Clinical features,			
		diagnostic, Prognosis, Management: medical, surgical and			
		Nursing management of			
		Motor neuron diseases.			
		Movement disorders- Tics, dystonia, chorea, wilson's disease,			
		essential tremors			
		• Dementia.			
		Parkinson's disease.			
		Multiple sclerosis.			
		• Alzemier's			
Х	10	NEURO INFECTIONS			
		Causes, pathophysiology, Clinical types, Clinical features,			
		diagnostic, Prognosis , Management: medical, surgical and			
		Nursing management of Neuro infections			
		Meningitis-types			
		Encephalitis.			
		Poliomyelitis.			
		Parasitic infections.			
		Bacterial infections			
		Neurosyphilis.			
		• HIV & AIDS.			
		Brain abscess.			
XI	10	PAROXYSMAL DISORDERS.			

		Causes, pathophysiology, Clinical types, Clinical features,			
		diagnosis, Prognosis, Management: medical, surgical and Nursing			
		management of			
		Epilepsy and seizures.			
		Status epilepticus.			
		• Syncope.			
		Menier's syndrome.			
		Cephalgia.			
XII	10	DEVELOPMENTAL DISORDERS.			
		Causes, pathophysiology, Clinical types, Clinical features,			
		diagnostic, Prognosis, Management: medical, surgical and			
		Nursing management of			
		Hydrocephalus.			
		Craniosynostosis.			
		spina bifida- Meningocele, Meningomyelocele encephalocele			
		• syringomyelia.			
		Cerebro vascular system anomalies.			
		Cerebral palsies.			
		Down's syndrome			
XIII	10	NEURO MUSCULAR DISORDERS.			
		Causes, pathophysiology, Clinical types, Clinical features,			
		diagnostic, Prognosis , Management: medical, surgical and			
		Nursing management of			
		• Polyneuritis – G B Syndrome.			

		Muscular dystrophy.
		Myasthenia gravis.
		Trigeminal neuralgia.
		Bell's palsy.
		Menier's disease
		Carpal tunnel syndrome
		Peripheral neuropathies
XIV	5	NEOPLASMS – SURGICAL CONDITIONS.
		Causes, pathophysiology, Clinical types, Clinical features,
		diagnostic, Prognosis, Management: medical, surgical and
		Nursing management of
		Space occupying lesions -types
		Common tumors of CNS,
XV	5	OTHER DISORDERS
		Causes, pathophysiology, Clinical types, Clinical features,
		diagnostic, Prognosis, Management: medical, surgical and
		Nursing management of
		Metabolic disorders - diabetes, insipidus, metabolic
		encephalopathy
		Sleep disorders
		Auto immune disorders- multiple sclerosis, inflammatory
		myopathies
XVI	10	NEURO EMERGENCIES
		Causes, pathophysiology, Clinical types, Clinical features,

	1				
		diagnostic, Prognosis, Management: medical, surgical and			
		Nursing management of			
		Increased intracranial pressure			
		• Unconscious			
		Herniation syndrome			
		• Seizures			
		Severe head injuries			
		Spinal injuries			
		Cerebro vascular accidents			
XVII	5	REHABILITATION.			
		Concept and Principles of Rehabilitation.			
		Factors affecting quality of life and coping			
		Rehabilitation in acute care setting, and following stroke, head			
		injury and degenerative disorders of brain			
		Physiotherapy.			
		Counselling			
		Care giver's role			
		Speech & LanguageNeurogenic communication disorders, Speech			
		therapy			
XVIII	5	ETHICAL AND LEGAL ISSUES IN NEUROSCIENCE NURSING			
		Brain death and organ transplantation			
		Euthanasia			

		Negligence and malpractice
		Nosocomial infections
XIX	5	QUALITY ASSURANCE IN NEUROLOGICAL NURSING PRACTICE
		Role of advance practitioner in neurological nursing
		Professional practice standards
		Quality control in neurologic nursing
		Nursing audit
		Neuro ICU
		Philosophy, aims and objectives
		Policies, staffing pattern, design and physical plan of neuro ICU
		Team approach, functions
		Psychosocial aspects in relation to staff and clients of neuro
		ICU,
		In-service education

# **Practical**

Sr.No.	Posting of area	No. of weeks	Total No.of Hours
1	O.P.D	2	60
2	Casualty	2	60
3	Diagnostics	2	60
4	Neuro psychiatry	1	30
5	Neuro Medical wards	4	120
6	Paediatric Neuro ward	2	60
7	Neuro surgical wards	4	120
8	Head Injury ward	3	90
9	ICU- neuro medicine	4	120

10	I.C.U neuro surgical	4	120
11	Rehabilitation	2	60
12	Operation Theatre	2	60
	Total	32 Weeks	960 Hours

Visit to cerebral palsy centre

# **ESSENTIAL NEURO NURSING SKILLS**

# I. Procedures Observed

- 1. CT scan
- 2. MRI
- 3. PET
- 4. EEG

- 5. EMG
- 6. Sleep pattern studies/Therapy
- 7. Radiographical studies
- 8. Neuro surgeries
- 9. Nerve conduction studies
- 10. Ultrasound studies
- 11. Any other

#### **II. Procedures Assisted**

- 1. Advanced Cardiac life support
- 2. Lumbar Puncture
- 3. Biopsies muscle, nerve and Brain
- 4. Arterial Blood Gas
- 5. ECG Recording
- 6. Blood transfusion
- 7. IV cannulation open method
- 8. Endotracheal intubation
- 9. Ventilation
- 10. Tracheostomy
- 11. ICP monitoring
- 12. Gama Knife
- 13. Cereberal angiography
- 14. Myelography
- 15. Neuro surgeries

# **III. Procedures Performed:**

#### Airway management

- a. Application of Oro Pharyngeal Airway
- b. Care of Tracheostomy
- c. Conduct Endotracheal Intubation
- d. use of AMBU bag, artificial respirators
- e. Setting of Ventilators and Care of patients on ventilators

# Cardio Pulmonary Resuscitation -Defibrillation

- 3. Neurological assessment Glasgow coma scale
- 4. Gastric Lavage
- 5.IV Cannulation
- 6.Administration of emergency IV Drugs, fluid
- 7. Care of patients with incontinence, bladder training
- **8.** Care of patients on traction related to the neurological conditions

- 9.Blood Administration.
- 10. Muscle strengthening exercises
- 11. Guidance and counseling
- 12. Monitoring management and care of monitors.

## **IV. Other Procedures**

# Dr.D.Y.PATIL COLLEGE OF NURSING BHOSARI, PUNE-18.

# M Sc Nursing Evaluation criteria for Case study

Name of the Student:

Topic:

Date of Submission:

Sr. No	Criteria	Marks allotted	Marks obtained
1	Assessment	05	
2	Theoretical knowledge about disease	05	
3	Comparative study of patient's disease & book picture	10	
4	Management: Medical/surgical	05	
5	Nursing process	15	
6	Drug study	03	
7	Summary & conclusion including research evidence	05	
8	Bibliography	02	
	Total	50	

Remark:

Signature of Student	Signature of Evaluator
Date:	Date:

# Dr.D.Y.PATIL COLLEGE OF NURSING BHOSARI, PUNE-18.

# M Sc Nursing Evaluation criteria for Care Plan

	Name	of	the	Student:
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Topic:

Date of Submission: Field of Placement:

Sr. No	Criteria	Marks allotted	Marks obtained
1	Assessment	12	
2	Nursing diagnosis	3	
3	Goal	2	
4	Outcome criteria/Objective	2	
5	Nursing intervention	15	
6	rationale	03	
7	Evaluation	03	
8	Nurses notes	10	
	Total	50	

Remark:	
Signature of Student Date:	Signature of Evaluator Date:

# Dr.D.Y.PATI COLLEGE OF NURSING BHOSARI , PUNE-18.

# M Sc Nursing Evaluation criteria for Case presentation

Name of the student: Name of the patient: Diagnosis:

Ward:

Date of presentation:

Sr.No	Criteria	Marks allotted	Marks obtained
1	Subjective & objective data	08	
2	Problem & need identified & nursing care plan	15	
3	Effectiveness of presentation	05	

4	Corelation with patient & book,	10	
	research evidence		
5	Use of A. V. aids	05	
6	Physical arrangement	02	
7	Group participation	03	
8	Bibliography	02	
	Total	50	

Remark:

Signature of Student Signature of Evaluator

Date: Date:

# Dr.D.Y.PATI COLLEGE OF NURSING BHOSARI, PUNE-18.

# **EVALUATION CRITERIA FOR SEMINAR PRESENTATION**

Subject:	
	Date:
Name of student:	Time:
Group:	Maximum Marks: 100

S.No.	Criteria	Rating			Remarks		
		1	2	3	4	5	
1.	Content						
	Introduction						

3. Presentation of topic  4. Relevant examples  5. Relevant statistical data  6. Group participation  7. Control of group  8. AV Aids: Appropriate to subject  9. Proper use of A/V Aids  10. Self explanatory  11. Attractive  12. Planning and preparation	
5. Relevant statistical data 6. Group participation 7. Control of group 8. AV Aids: Appropriate to subject 9. Proper use of A/V Aids 10. Self explanatory 11. Attractive	
6. Group participation  7. Control of group  8. AV Aids: Appropriate to subject  9. Proper use of A/V Aids  10. Self explanatory  11. Attractive	
7. Control of group  8. AV Aids: Appropriate to subject  9. Proper use of A/V Aids  10. Self explanatory  11. Attractive	
8. AV Aids: Appropriate to subject  9. Proper use of A/V Aids  10. Self explanatory  11. Attractive	
Appropriate to subject  9. Proper use of A/V Aids  10. Self explanatory  11. Attractive	
9. Proper use of A/V Aids  10. Self explanatory  11. Attractive	
10. Self explanatory  11. Attractive	
11. Attractive	
12. Planning and preparation	
13. Use of Modern technology	
14. Physical facilities:	
Environment	
15. Classroom preparation	
16. Over lay out	
17. Personal Appearance:	
Voice & clarity	
18. Mannerisms	
19. Conclusion	
20. References	

Remarks & Signature of Supervisor:

Signature of Student:

# Dr. D. Y. PATIL COLLEGE OF NURSING, BHOSARI, PUNE-18

# M. Sc. Nursing Evaluation Criteria for Written Assignment

Total Marks = 25

S.N.	Criteria	Marks
1.	Content	10
2.	Organization	05
3.	Resources used	03
4.	Completeness	03
5.	Neatness	02
6.	Bibliography	02
	Total	25

Remarks: - Total:-

Date & Signature of the Evaluator:

Date & Signature of the Student

# Dr.D.Y.PATIL COLLEGE OF NURSING BHOSARI, PUNE-18.

## **CLINICAL EVALUATION: - COMPREHENSIVE NURSING CARE**

(maximum marks – 100 each area)

Name of the students

Year :- II semester M.Sc Nursing

**Duration of Experience:** 

SR.No.	Criteria	1	2	3	4	5
I	Understanding of patient as person					
	A.Approach					
	1.Rapport with patient / family members.					
	2.Collects significant information					
	B.Understanding of patient's health problems.					
	1.knowledge about disease condition.					
	2.knowledge about investigations.					
	3.knowledge about treatment.					
	4.knowledge about progress of the patient.					
II	Nursing care plan					
	A.Assessment of the condition of the patient .					
	1. History taking –past & present health and illness					
	2.specific observation of the patient					
	3.Nursing diagnosis					

		Г				
	B.Development of the short – term & long term nursing care plans.					
	1.Indentification of all problems in the patient family.					
	2.Priritization 7 implementation of the plans.					
	3.Evaluation of the care given & re-planning					
III	Technical skill					
	1.Economical & safe adaptation to the situation & available facilities.					
	2.Implements the procedure with skill speed & completeness.					
IV	Recording & Reporting					
	1.Prompt, Precise , accurate & relevant.					
	μ.,					
	2.Maintanance of clinical experience file.					
V	Health Teaching					
	1.Incidental/ Planned teaching with principles of teaching & learning.					
	2.Uses visual aids appropriately					
VI	Personality					
	1.Professional appearance (Uniform, dignity, tact fullness					
	interpersonal relationship , ,Punctuality etc.					
	2.Sincerely, honesty & sense of responsibility					
	Total Marks					
1		i	1	1	i	

Comments

# **Evaluation Criteria:**

# Theory:

Unit test I 25 marks

Prefinal 75marks

Seminar (1) 100 marks each

Topic Presentation(1) 50 marks

Journal Presentation(1) 25 marks

Written assignment 25 marks

Total marks 300marks (send university out of 25)

# **Practical:**

Unit test I 25 marks

Prefinal 100 marks

Nursing procedure 50 marks

Clinical assignments

• Case study (2) 50x2=100

• Case presentation (2) 50x2=100

• Care plan (3) 50x3=150

• Clinical evaluation (2) 100x2=200

• Project work(1) 100x1=100

#### **Total marks**

825marks (send university out of 100)

# **University Examination:**

Theory: 75

Practical: 100

## **Anatomy & Physiology**

- Gerard J. Tortora, Principles of Anatomy and Physiology, 11<sup>th</sup> edition,2006, published by John Wiley and sons, United States of America
- 2. Ross and Wilson, Anatomy and Physiology in Health and Illness, 9<sup>th</sup> edition, 2001, Elsevier Churchill Livingstore, Philadelphia
- 3. Gray Thibodkar, Textbook of Anatomy and Physiology, 12<sup>th</sup> edition, published by Elsevier, India,2003
- 4. Waugh, Anne (2003), "Anatomy & Physiology in health & illness" 10<sup>th</sup> ed., Churchill Livingstone.
- 5. Anthony & Thibodcon (2000), "Anatomy & Physiology for nurses" 11<sup>th</sup> ed., C.V. Mosby Co., London.
- 6. Greig, Rhind, "Riddle's Anatomy & Physiology," 7th ed., Churchill Livingstone.
- 7. Singh, I.B. (2005), "Anatomy & Physiology for nurses", 1st ed., Jaypee
- 8. Tortora, (2003), "Principles of Anatomy & Physiology," 10<sup>th</sup> ed., Wiley inter.
- 9. Chaurasia, B.D.(2004), "Human Anatomy", 4th ed., CBS publishers.
- 10. Sembulingam, "Essentials of Medical Physiology," 3<sup>rd</sup> Edition 2004 J.P.Publication.

- 11. T Clenister and Jean Rosy (1974). "Anatomy and physiology for Nurses" 2<sup>nd</sup> Edition, William Hernmarni Medical BK. Ltd.
- 12. Ganong. F. William, "Review of Medical Physiology", 15<sup>th</sup> Edition Prentice Hall International Inc., Appleton and Lange.
- 13. Guyton and Hall, "Textbook of Medical Physiology," 9<sup>th</sup> Edition, A Prism2. Indian Edn. Pvt. Ltd.

#### **Medical Surgical**

- 1. Brunner and Suddarth's, Text Book of Medical Surgical Nursing , 9<sup>th</sup> edition, 2005, Lippincott Raven Publishers.
- 2. John Luckmann, Medical Surgical Nursing, 3<sup>rd</sup> edition, 1987, Saunders Company, Philadelphia, London
- 3. Jayce M. Black, Jane Hokenson Hawks, Medical Surgical Nursing-Clinical Management for positive outcomes, 7<sup>th</sup> edition, 2005, Elseiver, India.
- 4. Brunner S.B., Suddarth D.S., The Lippincott Manual of Nursing practice J.B. Lippincott.Philadelphia.
- 5. Medical Surgical Nursing: an integrated approach, White, L, Delmar Thomson learning (2002) 2<sup>nd</sup> ed, United States
- 6. Lewis, Heitkemper & Dirksen Medical Surgical Nursing Assessment and Management of Clinical Problems (6<sup>th</sup> ed (2000) Mosby.
- 7. Colmer R.M., Moroney's Surgery for Nurses(16<sup>th</sup> ed) (1995) ELBS.
- 8. Shah N.S., A P I textbook of Medicine, The Association of Physicians of India Mumbai(2003).
- 9. Satoskar R.S., Bhandarkar S.D. & Rege N. N., Pharmacology and Pharmacotherapeutics, 19<sup>th</sup> ed, 2003 Popular Prakashan, Mumbai.
- 10. Phipps W.J., Long C.B.& Wood N.F., Shaffer's Medical Surgical Nursing B.T. Publication Pvt. Ltd. (2001) New Delhi.
- 11. Datta T.k. fundamentals of Operation Theatre Services, Paypee, (2003), New Delhi.
- 12. Maheswari J, Essentials of Orthopedics ( 3<sup>rd</sup> ed) Mehta Publication, New Delhi.
- 13. Pasricha J.S., Gupta R., Illustrated Text book of Dermatology, 2<sup>nd</sup> ed, 2001 Jaypee brothers New Delhi.
- 14. Haslett C., Chilvers E.R., Hunder J.A.A. & Boon, N.A. Davidson's Principles and Practice of Medicine, 18<sup>th</sup> ed, (1999) Churchill living stone. Edinburgh.
- 15. Walsh M., Watson's Clinical Nursing and Related Sciences, 6<sup>th</sup> ed,(2002) Bailliere Tindall Edinburgh.
- 16. Mmedical Surgical Nursing: A Nursing process approach Col. I & II, Ignatacicius, Donna and Workman, Linda, W.B. Saunders company, Philadelphia, 1995
- 17. Nettina, Sandra, Lippincott Williams & Wilkins, The Lippincott Manuel of Nursing practice, 7<sup>th</sup> ed, 2001, Philadelphia

# Dr.D.Y.PATIL COLLEGE OF NURSING BHOSARI, PUNE-18. **CLINICAL SPECIALITY – II** MEDICAL SURGICAL NURSING- NEPHRO-UROLOGY NURSING

Placement: III Semester- T-75 hrs (I-VII unit)

Practical- 150 hrs

IV Semester- T-75 hrs (VIII- XV unit)

Practical-810 hrs

**Hours of Instruction** 

Theory: 150 hours: C-3

Practical: 960 hours: C-16

Total: 1100 hours: C-19

# **Course Description**

This course is designed to assist students in developing expertise and in- depth understanding in the field of Nephro and urological Nursing. It will help students to develop advanced skills for nursing intervention in various nephro and urological conditions. It will enable the student to function as nephro and urology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of nephro and urology nursing

#### **Objectives**

#### At the end of the course the students will be able to:

- 1. Appreciate trends and issues related to nephro and urological nursing
- 2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of nephro and urological conditions
- 3. Perform physical, psychosocial & spiritual assessment
- 4. Assist in various diagnostic, therapeutic and surgical interventions
- 5. Provide comprehensive nursing care to patients with nephro and urological conditions

- 6. Describe the various drugs used in nephro and urological conditions and nurses responsibility
- 7. Demonstrate skill in handling various equipments/gadgets used for patients with nephro and urological conditions
- 8. Appreciate team work & coordinate activities related to patient care
- 9. Practice infection control measures.
- 10. Identify emergencies and complications & take appropriate measures
- 11. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs
- 12. Discuss the legal and ethical issues in nephro and urological nursing
- 13. Identify the sources of stress and manage burnout syndrome among health care providers
- 14. Appreciate the role of alternative system of medicine in the care of patient
- 15. Incorporate evidence based nursing practice and identify the areas of research in the field of nephro and urological nursing
- 16. Teach and supervise nurses and allied health workers
- 17. Design a layout of kidney transplant unit and dialysis unit
- 18. Develop standards of nephro urological nursing practice

Unit	Hours	Content			
I	5	INTRODUCTION			
		<ul> <li>Historical development: trends and issues in the field of nephro and urological nursing.</li> </ul>			
		<ul> <li>Nephro and urological problems</li> </ul>			
		<ul> <li>Concepts, principles and nursing perspectives</li> </ul>			
		<ul> <li>Ethical and legal issues</li> </ul>			
		<ul> <li>Evidence based nursing and its application in nephro and</li> </ul>			

		o urological nursing(to be incorporated in all the units)
II	5	<ul> <li>Major health problems- urinary dysfunction, urinary tract infections, Glomuerular disorders, obstructive disorders ad other urinary disorders</li> <li>Risk factors associated with nephro and urological conditions conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations</li> <li>Health promotion, disease prevention, life style modification and its implications to nursing</li> </ul> Alternate system of medicine/complementary therapies
III	5	REVIEW OF ANATOMY AND PHYSIOLOGY OF URINARY SYSTEM  Embryology Structure and functions Renal circulation Physiology of urine formation Fluid and electrolyte balance Acid base balance Immunology specific to kidney

IV	20	ASSESSMENT AND DIAGNOSTIC MEASURES				
		<ul> <li>History taking</li> <li>Physical assessment, psychosocial assessment</li> <li>Common assessment abnormalities-dysurea, frequency, enuresis, urgency, hesistancy, hematuria, pain, retention, burning on urination, pneumaturia, incontinence, nocturia, polyurea, anuria,</li> <li>oliguria,</li> </ul>				
		<ul> <li>Diagnostic tests-urine studies, blood chemistry, radiological procedures-KUB, IVP,nephrotomogram, retrograde pylogram, renal</li> </ul>				
		arteriogram, renalultrasound, CT scan, MRI, cystogram, renal				
		scan, biopsy, endoscopy-cystoscopy, urodynamics studies-				
		cystometrogram, urinary flow study, sphincter electromyography,				
		voiding pressure flow study, videourodynamics, Whitaker study				
		Interpretation of diagnostic measures				
		Nurse's role in diagnostic tests				
V	5	RENAL IMMUNOPATHY/IMMUNOPATHOLOGY				
		<ul> <li>General Concept of immunopathology</li> <li>Immune mechanism of glomerual vascular disease</li> <li>Role of mediater systems in glomerula vascular disease</li> </ul>				
VI	25	GLOMUERAL DISORDERS AND NURSING MANAGEMENT				

		Etiology, clinical manifestations, diagnosis, prognosis, related				
		pathophysiology, medical, surgical and nursing management of				
		Glomueralo nephritis- chronic, acute , nephritic syndrome				
		Acute Renal failure and chronic renal failure.				
		Renal calculi				
		Renal tumours-benign and malignant				
		Renal trauma				
		Renal abscess				
		Diabetic nephropathy				
		Vascular disorders				
		Renal tuberculosis				
		Polycystic				
		Congenital disorders				
		Hereditary renal disorders				
VII	10	PEDIATRIC URINARY DISORDERS				
		Etiology, clinical manifestations, diagnosis, prognosis, related				
		pathophysiology, medical, surgical and nursing management of				
		children with Renal Diseases -UTI, ureteral reflux, glomerulo				
		nephritis, nephrotic syndrome infantile nephrosis, cystic kidneys,				
		familial factors in renal diseases in childhood, Haemolytic uraemic				
		syndrome. Benign recurrent haemturia, nephropathy,				
		tumour				
VIII	12	MANAGEMENT OF RENAL EMERGENCIES				

		Anuria			
		Acute Renal failure			
		Poisoning			
		Trauma			
		Urine retention			
		Acute graft rejection			
		Hematuria			
		Nurse's role			
IX	10	DRUGS USED IN URINARY DISORDERS			
		Classification			
		Indications, contraindications, actions and effects, toxic effects			
		Role of nurse			
Х	8	DIALYSIS			
		Dialysis- Historical, types, Principles, goals			
		Hemodialysis- vascular access sites- temporary and permanent			
		Peritoneal dialysis			
		Dialsyis Procedures- steps, equipments, maintenance,			
		Role of nurse- pre dialysis, intra and post dialysis			
		Complications-			
		Counseling			
		patient education			
		Records and reports			
<u> </u>	<u>I</u>	I .			

ΧI	12	KIDNEY TRANSPLANTATION
		Nursing management of a patient with Kidney transplantation
		Kidney transplantations- a historical review
		Immunology of graft rejections
		The recipient of a renal transplant
		Renal preservations
		Human Leucocytic Antigen(HLA) typing matching and cross
		matching in renal transplantation
		Surgical techniques of renal transplantations
		Chronic renal transplant rejection
		Complication after KTP: Vascular and lymphatic, Uroloical,
		cardiovascular, liver and neurological, infectious complication
		KTP in children and management of pediatric patient with KTP
		KTP in developing countries
		Results of KTP
		Work up of donor and recipient for renal transplant
		Psychological aspect of KTP and organ donations
		Ethics in transplants
		Cadaveric transplantation
XII	5	REHABILITATION OF PATIENT WITH NEPHROLOGICAL PROBLEMS
		Risk factors and prevention
		Rehabilitation of patients on dialysis and after kidney transplant

		Rehabilitation of patients after urinary diversions				
		Family and patient teaching				
XIII	5	CRITICAL CARE UNITS- DIALYSIS , KTP UNIT				
		Philosophy, aims and objectives				
		Policies, staffing pattern, design and physical plan of Dialysis and				
		KTP units				
		Team approach, functions				
		Psychosocial aspects in relation to staff and clients of ICU, dialysis				
		unit				
		In-service education				
		Ethical and legal issues				
XIV	5	QUALITY ASSURANCE IN NEPHROLOGICAL NURSING PRACTICE				
		Role of advance practioner in nephrological nursing				
		Professional practice standards				
		Quality control in nephrological nursing				
		Nursing audit				
XV	18					
		UROLOGICAL DISORDERS AND NURSING MANAGEMENT				
		Etiology, clinical manifestations, diagnosis, prognosis, related				
		pathophysiology, medical, surgical and nursing management of				
		Urinary tract infections- pyelonephritis, lower urinary tract				

infections,  Disorders for ureters, bladder and urethera  Urinary tract infections-  Urinary dysfunctions- urinary retention, urinary incontinence,  urinary reflux,  Bladder disorders- neoplasms, calculi, neurogenic bladder, trama,
congenital abnormalities
Benign prostrate hypertrophy(BPH)
Ureteral disorders: ureteritis, ureteral trauma, congenital
anomalies of ureters
Uretheral disorders- tumours, trauma, congenital anomalies of
ureters,

# **Practical**

Sr.No.	Unit	No.of Weeks	Total No.of Hours
1	Nephrology Ward	6	180 Hours
2	Pediatrics	2	60 Hours

3	Critical Care Unit	2	60 Hours
4	Urology Ward	6	180 Hours
5	Dialysis Unit	4	120 Hours
6	Kidney Transplantation Unit	2	60 Hours
7	URO OT	2	60 Hours
8	Emergency Wards	2	60 Hours
9	Uro Nephro OPDs	4	120 Hours
10	Diagnostic Labs	2	60 Hours
	Total	32 Weeks	960 Hours

#### I. Procedures Observed

- 1. CT Scan
- 2. MRI
- 3. Radiographic studies
- 4. Urodynamics
- 5. Hemodialysis
- 6. Renal Surgeries

#### ii. Procedures Assisted

- 1. Blood transfusion
- 2. I V cannulation therapy
- 3. Arterial Catheterization
- 4. Insertion of central line/cvp line
- 5. Connecting lines for dialysis
- 6. Peritoneal dialysis
- 7. Renal biopsy
- 8. Endoscopies- Bladder, urethra

#### iii. Procedure Performed

- 1. Health assessment
- 2. Insertion of uretheral and suprapubic catheters
- 3. Urine analysis
- 4. Catheterisation
- 5. Peritoneal dialysis
- 6. Bladder irrigation
- 7. Care of ostomies
- 8. Care of urinary drainage
- 9. Bladder training
- 10. Care of vascular access

- 11. Setting up dialysis machine and starting, monitoring and closing dialysis
- 12. Procedures for prevention of infections:
- 13. Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions.
- 14. Collection of specimen.
- 15. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, blood administration. monitoring -fluid therapy, electrolyte imbalance,
- 16. Nutritional needs, diet therapy & patient education.
- 17. Counselling

#### **IV. OTHER PROCEDURES:**

Evaluation Criteria:	
Theory:	
Unit test I	25 marks
Prefinal	75marks

100 marks each

Seminar (1)

Topic Presentation(1) 50 marks

Journal Presentation(1) 25 marks

Written assignment 25 marks

Total marks 300marks (send university out of 25)

#### **Practical:**

Unit test I 25 marks

Prefinal 100 marks

Nursing procedure 50 marks

Clinical assignments

• Case study (2) 50x2=100

• Case presentation (2) 50x2=100

• Care plan (3) 50x3=150

• Clinical evaluation (2) 100x2=200

• Project work(1) 100x1=100

Total marks 825marks (send university out of 100)

#### **University Examination:**

Theory: 75

Practical: 100

## Dr.D.Y.PATIL COLLEGE OF NURSING BHOSARI, PUNE-18.

# M Sc Nursing Evaluation criteria for Case study

Name	of the	student:	
INAIIIC	OI LIIC	student.	

Topic:

Date of submission:

Sr	Criteria	Marks allotted	Marks obtained
No			
1	Assessment	05	
2	Theoretical knowledge about disease	05	
3	Comparative study of patient's disease & book picture	10	
4	Management: Medical/surgical	05	
5	Nursing process	15	
6	Drug study	03	
7	Summary & conclusion including research evidence	05	
8	Bibliography	02	
	Total	50	

Remark:

Signature of Student	Signature of Evaluator
Date:	Date:

## Dr.D.Y.PATIL COLLEGE OF NURSING BHOSARI, PUNE-18.

## M Sc Nursing Evaluation criteria for Care Plan

Name of the Student:

Topic:

Date of Submission: Field of Placement:

Sr	Criteria	Marks allotted	Marks obtained
No			
1	Assessment	12	
2	Nursing diagnosis	3	
3	Goal	2	
4	Outcome criteria/Objective	2	
5	Nursing intervention	15	
6	rationale	03	
7	Evaluation	03	
8	Nurses notes	10	
	Total	50	

Remark:

Signature of Student	Signature of Evaluator
Date:	Date:

## Dr.D.Y.PATIL COLLEGE OF NURSING BHOSARI , PUNE-18.

# M Sc Nursing Evaluation criteria for Case presentation

Name of the student:
Name of the patient:

Diagnosis:

Ward:

Date of presentation:

Sr	Criteria	Marks Allotted	Marks Obtained
No			
1	Subjective & objective data	08	
2	Problem & need identified & nursing care plan	15	
3	Effectiveness of presentation	05	
4	Corelation with patient & book, research evidence	10	
5	Use of A. V. aids	05	
6	Physical arrangement	02	

7	Group participation	03	
8	Bibliography	02	
	Total	50	

Remark:

Signature of Student

Signature of Evaluator

Date:

Date:

## Dr.D.Y.PATIL COLLEGE OF NURSING BHOSARI, PUNE-26.

## **EVALUATION CRITERIA FOR SEMINAR PRESENTATION**

Subject:	
	Date:
Name of student:	Time:
Group:	Maximum Marks: 100

S.No.	Criteria Rating	Rating				Remarks	
		1	2	3	4	5	
1.	Content						
	Introduction						
2.	Organization of Content						

3.	Presentation of topic				
4.	Relevant examples				
5.	Relevant statistical data				
6.	Group participation				
7.	Control of group				
8.	AV Aids:				
	Appropriate to subject				
9.	Proper use of A/V Aids				
10.	Self explanatory				
11.	Attractive				
12.	Planning and preparation				
13.	Use of Modern technology				
14.	Physical facilities:				
	Environment				
15.	Classroom preparation				
16.	Over lay out				
17.	Personal Appearance:				
	Voice & clarity				
18.	Mannerisms				
19.	Conclusion				
20.	References				
L	1	 1	ı	1	<u> </u>

Signature of Student:

## Dr.D.Y.PATIL COLLEGE OF NURSING BHOSARI, PUNE-26.

# M. Sc. Nursing Evaluation Criteria for Written Assignment

Total Marks = 25

S.N.	Criteria	Marks
1.	Content	10
2.	Organization	05
3.	Resources used	03
4.	Completeness	03
5.	Neatness	02
6.	Bibliography	02
	Total	25

Remarks: - Total:-

Date & Signature of the Evaluator:	Date & Signature of the Student

Dr.D.Y.PATIL COLLEGE OF NURSING BHOSARI, PUNE-26.

#### **CLINICAL EVALUATION: - COMPREHENSIVE NURSING CARE**

(Maximum Marks – 100 each area)

#### Name of the students

Placement : Theory :- III Semester

Practical :-IV Semester Duration of Experience :

SR.No.	Criteria	1	2	3	4	5
I	Understanding of patient as person					
	A.Approach					
	1.Rapport with patient / family members.					
	2.Collects significant information					
	B.Understanding of patient's health problems.					
	1.knowledge about disease condition.					
	2.knowledge about investigations.					
	3.knowledge about treatment.					
	4.knowledge about progress of the patient.					
II	Nursing care plan					
	A.Assessment of the condition of the patient .					
	1. History taking –past & present health and illness					
	2.specific observation of the patient					
	3. Nursing diagnosis					
	B.Development of the short – term & long term nursing care plans.					
	1.Indentification of all problems in the patient family.					

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Signature of student

signature of clinical supervisor

**CLINICAL SPECIALITY – II** 

#### MEDICAL SURGICAL NURSING - ORTHOPEDIC NURSING

Placement: III Semester- T-75 hrs (I-X unit)

Practical- 150 hrs

IV Semester- T-75 hrs (XI- XVIII unit)

Practical-810 hrs

**Hours of Instruction** 

Theory: 150 hours: C-3

Practical: 960 hours: C-16

Total: 1100 hours: C-19

#### **Course Description**

This course is designed to assist students in developing expertise and in-depth understanding in the field of orthopedic nursing. It will help students to develop advanced skills for nursing intervention in various orthopedic conditions. It will enable the student to function as orthopedic nurse practitioner/ specialist providing quality care. It will further enable the student to function as educator, manager, and researcher in the field of orthopedic nursing.

At the end of the course the students will be able to:

- 1. Appreciate the history and developments in the field of orthopedic nursing
- 2. Identify the psycho-social needs of the patient while providing holistic care.
- 3. Perform physical and psychological assessment of patients with orthopedic conditions and disabilities
- 4. Describe various disease conditions and their management
- 5. Discuss various diagnostic tests required in orthopedic conditions
- 6. Apply nursing process in providing care to patients with orthopedic conditions and those requiring rehabilitation.
- 7. Recognize and manage orthopedic emergencies.

- 8. Describe recent technologies and treatment modalities in the management of patients with orthopedic conditions and those requiring rehabilitation.
- 9. Integrate the concept of family centered, long term care and community based rehabilitation to patients with orthopedic conditions.
- 10. Counsel the patients and their families with orthopedic conditions
- 11. Describe various orthotic and prosthetic appliances
- 12. Appreciate the legal and ethical issues pertaining to patients with orthopedic conditions and those requiring rehabilitation.
- 13. Appreciate the role of alternative system of medicine in care of patients with orthopedic conditions
- 14. Incorporate evidence based nursing practice and identify the areas of research in the field of orthopedic nursing.
- 15. Recognize the role of orthopedic nurse practitioner and as a member of the orthopedic and rehabilitation team.
- 16. Teach orthopedic nursing to undergraduate students and in-service nurses
- 17. Prepare a design and layout of orthopedic and rehabilitative units.

  Course Content

Unite	Hours	Content
Ι	5	INTRODUCTION
		Historical perspectives – History and trends in orthopedic nursing
		Definition and scope of orthopedic nursing
		Anatomy and physiology of Musculo-skeletal system
		Posture, Body landmarks Skeletal system Muscular system.
		Nervous system - Main nerves
		Healing of - Injury, bone injury,
		Repair of ligaments
		Systemic response to injury
		Ergonomics, Body mechanics, biomechanical measures

		Orthopedic team
II	8	ASSESSMENT OF ORTHOPEDIC PATIENT
		Health Assessment: History, physical examination- Inspection,
		palpation, movement, Measurement, muscle strength Testing.
		Diagnostic studies – Radiological studies, Muscle enzymes,
		serologic studies
III	10	CARE OF PATIENTS WITH DEVICES
		Splints, braces, various types of plaster cast
		Various types of tractions,
		Various types of orthopedic beds and mattresses
		Comfort devices
		Implants in orthopedic
		Prosthetics and Orthotics
IV	15	TRAUMA & INJURIES
		Causes, pathophysiology, clinical types, clinical features,
		diagnosis, prognosis, management, medical surgical and nursing
		management of :
		Early management of Trauma
		• Fractures
		Injuries of the
		Shoulder and arm
		Elbow, fore arm, wrist, hand
		Hip, thigh, knee, leg, ankle, foot

Spine	
Head injury	
Chest injury	
Polytrauma	
Nerve injuries	
Vascular injuries	
Soft tissue injuries	
• Sports injuries	
Amputation	
V 4 INFECTIONS OF BONES AND JOINTS	5
Course mathematical and divided to	www.aliniaal.footuwaa
Causes, pathophysiology, clinical t	ypes, cliffical features,
diagnosis, prognosis, management nursing	t, medical surgical and
management of :	
• Tuberculosis	
Osteomyelitis	
• Arthritis	
• Leprosy	
VI 5 BONE TUMOURS	
Causes, pathophysiology, clinical ty	ypes, clinical features,
diagnosis, prognosis, management nursing	r, medical surgical and
management of:	

		Bone tumors – Benign, Malignant and metastatic
		Different types of therapies for tumors
		Complementary Therapies Such As Yoga, Massaje , Reki , Unani , Medicinees, Ayurvedic tratmensts, Homeopathic, etc.
VII	10	DEFORMITIES
		Causes, pathophysiology, clinical types, clinical features,
		diagnosis, prognosis – medical surgical and nursing management
		of:Scoliosis, Kyphosis,Lordosis
		Congenital disorders: Congenital dislocation of hip(CDH),
		Dislocation of patella, knee,
		Varus and valgus deformities,
		Deformities of digits,
		Congenital torticollis.
		Meningocele, meningomyelocele, spina bifida,
		Chromosomal disorders.
		Computer related deformities
VIII	5	DISORDERS OF THE SPINE
		Intervertebral disc prolapse, Fracture of the spine
		Low back disorder – Low back pain, PND, spinal stenosis,
		spondylosis
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IX		NUTRITIONAL/METABOLIC AND ENDOCRINE DISORDERS
		Causes, pathophysiology, clinical types, clinical features,
		diagnosis, prognosis, medical surgical and nursing management
		of:
		• Rickets,
		• Scurvy,
		Hyper vitaminosis A and D,
		Osteomalacia,
		Osteoporosis
		Paget's disease,
		gout,
		Gigantism,
		Dwarfism,
		Acromegaly.
		Therapeutic diets for various orthopedic disorders
X	7	NEURO-MUSCULAR DISORDERS:
		Causes, pathophysiology, clinical types, clinical features,
		diagnosis, prognosis, medical surgical and nursing management
		of:
		Poliomyelitis, Cerebral Palsy
		Myasthenia gravis
		• Spina bifida.
		Peripheral nerve lesion,

		Paraplegia, Hemiplegia, Quadriplegia.
		Muscular dystrophy
		• Muscular dystrophly
XI	10	CHRONIC/DEGENERATIVEDISEASES OF JOINTS AND
		AUTOIMMUNE
		DISORDERS:
		Causes, pathophysiology, clinical types, clinical features,
		diagnosis, prognosis – medical surgical and nursing management
		of:
		Osteo Arthritis
		Rheumatoid Arthritis
		Ankylosing spondylitis.
		Spinal disorders.
		Systemic Lupus Erythematosus
XII	5	ORTHOPEDIC DISORDERS IN CHILDREN:
		General and special consideration on pediatric orthopedics
		Genetic disorders
		Congenital anomalies
		Growth disorders
		Genetic counseling
		Nurses role in genetic counseling
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XIII	5	GERIATRIC PROBLEMS
		Geriatric population, types of disabilities, causes, treatment and
		Management – Hospitalization, rest, physiotherapy,
		involvement of
		family members, social opportunities.
		Care at home – involvement of family and community, follow
		up
		care and rehabilitation
XIV	8	PHARMACOKINETICS
		Principles of drug administration
		Analgesics and anti inflammatory agents
		Antibiotics, Antiseptics,
		Drugs used in orthopedics and neuromuscular disorders
		Blood and blood components
		Care of drugs and nurses role
XV	30	NURSES ROLE IN ORTHOPEDIC CONDITIONS
		Gait analysis
		Urodynamic studies
		Prevention of physical deformities
		Alteration of body temperature regulatory system and immune
		systems
		Immobilization – cast, splints, braces and tractions

Prevention and care of problems related to immobility

Altered sleep patterns

Impaired communication

Self care and activities of daily living

Bladder and bowel rehabilitation

Sensory function rehabilitation

Psychological reaction related to disabilities and disorders.

Coping of individual and family with disabilities and disorders

Maintaining sexuality

Spirituality – A rehabilitative prospective

Orthopedic Reconstructive Surgeries

Replacement surgeries – Hip, Knee, Shoulder

Spine surgeries

Grafts and flaps surgery

Deformity correction

#### Physiotherapy

Concepts, Principles, purpose,

- Mobilization Exercises: types, re-education in walking:
   Crutch walking, wheel chair, Transfer techniques,
- Types of gaits: Non-weight bearing, partial weight bearing,
   four point crutch, tripoid, walking with sticks, calipers
- Forms of therapies: Hydrotherapy, electrotherapy, wax bath,

		hant the many than half a thin and a self of the second self of the se
		heat therapy, ice, helio therapy, radiant heat,
		Chest physiotherapy
VVI	8	DELIABILITATION
XVI	8	REHABILITATION
		Principles of rehabilitation, definition, philosophy, process,
		Various types of therapies
		Special therapies and alternative therapies
		Rehabilitation counseling
		Preventive and restorative measures.
		Community based rehabilitation (CBR)
		Challenges in rehabilitation.
		Role of the nurse in rehabilitation,
		Legal and ethical issues in rehabilitation nursing
		Occupational therapy
XVII		NATIONAL POLICIES AND PROGRAMMES
		National programmes for rehabilitation of persons with disability -
		National Institutes, artificial limbs manufacturing Corporation,
		District Rehabilitation Centers and their schemes
		Regional rehabilitation centers etc.
		Public policy in rehabilitation nursing
		The persons with disabilities act 1995,
		Mental rehabilitation and Multiple disabilities act 1992,
<u> </u>		

		The National Trust Rules 1999 and 2000  Rehabilitation Council of India		
		Legal and ethical aspects in orthopedic nursing		
		Rehabilitation health team and different categories of team members.		
VVIII	4			
XVIII	4	QUALITY ASSURANCE Standards, Protocols, Policies, Procedures		
		Nursing audit Staffing		
		Design of orthopedic, physiotherapy and rehabilitation unit		

Field Visits:

Visit to rehabilitation center

Visit to workshops where these devices are made

Visit to paraplegic center

Visit to rehabilitation center

Visit to physiotherapy unit

Field Visit: Artificial limbs manufacturing corporation, District, Regional rehabilitation center

#### **Practical**

- 1. Clinical practice in Orthopedic, physiotherapy and Rehabilitation Units.
- 2. Application of tractions and plaster casts and removal of tractions and plaster casts and other appliances.
  - Apply Theories and Nursing Process in the management of patients
- 3. with orthopedic conditions.
- 4. Provide various types of physical and rehabilitative therapies
- 5. Provide health education on related disease conditions.
- 6. Unit management and plan designing

## **Clinical Experience**

Total = 960 Hours

1 Week = 30 Hours

S. No.	Deptt./Unit	No. of Week	Total Hours
1	Orthopedic Ward	8	240 Hours
2	Orthopedic Operation theatre	4	120 Hours
3	Neurosurgical Ward	2	60 Hours
4	Orthopedic O.P.D.	4	120 Hours
5	Casualty/Emergency and Trauma	4	120 Hours
6	Rehabilitation Units	2	60 Hours

7	Physiotherapy Unit	4	120 Hours
8	Paediatric /paediatric surgery unit	2	60 Hours
9	Field Visit	2	60 Hours
	Total	32 Weeks	960 Hours

#### **Procedures Observed**

- 1.X Ray
- 2.Ultrasound
- 3.MRI
- 4.C T Scan/bone scan
- 5.Arthroscopy
- 6.Electrothermally assisted capsule shift or ETAC (Thermal capsulorrhaphy)
- 7.Fluroscopy
- 8. Electromyography
- 9. Myelography
- 10.Discography

#### **Procedures Assisted**

- 1. Blood Transfusion
- 2. IV cannulation and therapy
- 3. Ventilation
- 4. Various types of tractions
- 5. Orthopedic surgeries Arthrocentesis, Arthroscopy, Bone lengthening, Arthrodesis, grafting, Fractures fixation, reconstructive, reimplantation, replantation, spinal decompression, transplantation of bone, muscle or articular cartilage, autografting, allografting.
- 6. Injection Intra articular, intra osseous.
- 7. Advance Life Support

#### **Procedures Performed**

- 1. Interpretation of X ray films.
- 2. Application and removal of splints, casts, and braces.
- 3. Care of tractions skin and skeletal traction, pin site care.
- 4. Cold therapy.
- 5. Heat therapy
- 6. Hydrotherapy
- 7. Therapeutic exercises
- 8. Use of TENS (Transcutaneous electrical nerve stimulation)
- 9. Techniques of transportation
- 10. Crutch walking, walkers, wheel chair.
- 11. Use of devices for activities of daily living and prevention of deformities.
- 12. Administration of drugs: IV injection, IV cannulation, and Blood transfusion.
- 13. Procedures for prevention of infections: disinfection and sterilization, surveillance, fumigation.
- 14. Special skin/ part preparations for orthopedic surgeries.

- 15. Surgical dressings Debridement.16. Bladder and bowel training

#### Other Procedures

## Dr D Y Patil College of Nursing M Sc Nursing Evaluation criteria for Case study

Name of the student:

Topic:

Date of submission:

Sr No	Criteria	Marks allotted	Marks obtained
1	Assessment	05	
2	Theoretical knowledge about disease	05	
3	Comparative study of patient's disease & book picture	10	
4	Management: Medical/surgical	05	
5	Nursing process	15	
6	Drug study	03	

7	Summary & conclusion	05	
	including research evidence		
8	Bibliography	02	
Total		50	

Remark

Signature of student Signature of evaluator Date Date

## Dr D Y Patil College of Nursing M Sc Nursing Evaluation criteria for Care Plan

Name of the student:

Topic:

Date of submission: Field of placement:

Sr No	Criteria	Marks allotted	Marks obtained
1	Assessment	12	
2	Nursing diagnosis	3	
3	Goal	2	
4	Outcome criteria/Objective	2	
5	Nursing intervention	15	
6	rationale	03	

7	Evaluation	03	
8	Nurses notes	10	
	Total	50	

## Remark

Signature of student	Signature of evaluator
Date	Date

# Dr D Y Patil College of Nursing M Sc Nursing Evaluation criteria for Case presentation

Name of the student:
Name of the patient:
Diagnosis:
Ward:
Date of presentation:

Sr No	Criteria	Marks allotted	Marks obtained
1	Subjective & objective data	08	
2	Problem & need identified &	15	

	nursing care plan		
3	Effectiveness of presentation	05	
4	Corelation with patient & book, research evidence	10	
5	Use of A. V. aids	05	
6	Physical arrangement	02	
7	Group participation	03	
8	Bibliography	02	
	Total	50	

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Signature of student	Signature of evaluator
Date	Date

## DR.D.Y.PATI COLLEGE OF NURSING BHOSARI , PUNE-18.

#### **EVALUATION CRITERIA FOR SEMINAR PRESENTATION**

Subject:	
	Date:
Name of student:	Time:
Group:	Maximum Marks: 100

S.No.	Criteria		Rating				
		1	2	3	4	5	
1.	Content						
	Introduction						
2.	Organization of Content						
3.	Presentation of topic						
4.	Relevant examples						
5.	Relevant statistical data						
6.	Group participation						
7.	Control of group						
8.	AV Aids:						
	Appropriate to subject						
9.	Proper use of A/V Aids						
10.	Self explanatory						
11.	Attractive						
12.	Planning and preparation						
13.	Use of Modern technology						
14.	Physical facilities:						
	Environment						
15.	Classroom preparation						
16.	Over lay out						
17.	Personal Appearance:						

	Voice & clarity			
18.	Mannerisms			
19.	Conclusion			
20.	References			

Remarks & signature of supervisor:	
Signature of student:	

DR. D. Y. Patil College of Nursing, Bhosari, Pune-18

M. Sc. Nursing

Evaluation Criteria for Written Assignment

Total Marks = 25

S.N.	Criteria	Marks
1.	Content	10
2.	Organization	05
3.	Resources used	03
4.	Completeness	03
5.	Neatness	02
6.	Bibliography	02
	Total	25

Remarks: - Total:-

Date & Signature of the Evaluator: Date & Signature of the student

#### **CLINICAL EVALUATION: - COMPREHENSIVE NURSING CARE**

(Maximum Marks – 100 each area)

Name of the students

Year :- II semester M.Sc Nursing

**Duration of Experience:** 

SR.No.	Criteria	1	2	3	4	5
I	Understanding of patient as person					
	A.Approach					
	1.Rapport with patient / family members.					
	2.Collects significant information					
	B.Understanding of patient's health problems.					
	1.knowledge about disease condition.					
	2.knowledge about investigations.					
	3.knowledge about treatment.					
	4.knowledge about progress of the patient.					
II	Nursing care plan					

	Total Marks			
	2.Sincerely, honesty & sense of responsibility			
	1.Professional appearance (Uniform, dignity, tact fullness interpersonal relationship,, Punctuality etc.			
VI	Personality			
	2.Uses visual aids appropriately			
	1.Incidental/ Planned teaching with principles of teaching & learning.			
V	Health Teaching			
	2.Maintanance of clinical experience file.			
	1.Prompt, Precise , accurate & relevant.			
IV	Recording & Reporting			
	2.Implements the procedure with skill speed & completeness.			
	1.Economical & safe adaptation to the situation & available facilities.			
III	Technical skill			
	3.Evaluation of the care given & re-planning			
	2.Priritization 7 implementation of the plans.			
	1.Indentification of all problems in the patient family.			
	B.Development of the short – term & long term nursing care plans.			
	3. Nursing diagnosis			
	2.specific observation of the patient			
	1. History taking –past & present health and illness			
	A.Assessment of the condition of the patient .			

# Comments Signature of student signature of clinical supervisor **Evaluation Criteria: Evaluation Criteria:** Theory: Unit test I 25 marks Prefinal 75marks 100 marks each Seminar (1) Topic Presentation(1) 50 marks Journal Presentation(1) 25 marks Written assignment 25 marks **Total marks** 300marks (send university out of 25)

**Practical:** 

Unit test I 25 marks

Prefinal 100 marks

Nursing procedure 50 marks

#### Clinical assignments

Case study (2) 50x2=100
 Case presentation (2) 50x2=100
 Care plan (3) 50x3=150
 Clinical evaluation (2) 100x2=200
 Project work(1) 100x1=100

**Total marks** 

825marks (send university out of 100)

#### **University Examination:**

Theory: 75

Practical: 100

#### **References:-**

#### **Books:-**

- 1. B.T. Basavanthappa (2005); Orthopedic for Nurses; 1st ed; Jaypee Brobers, New Delhi
- 2. David Dandy, Dennis Edwards (1998); Essential Orthopedic and Trauma; 3<sup>rd</sup> ed; Langman Singapore
- 3. David Evans (1993); Techniques in Orthopedic Surgery; 1<sup>st</sup> ed, Blackwell Publications, London
- 4. Ebnezer's John Text book of Orthopedics' 3<sup>rd</sup> Edition J.P. Brother, New Dehli.
- 5. Mary Powell (1976); Orthopedic Nursing; 7th ed.; Churchill Livingstone
- 6. Maheshwari J., 'Essential Orthopedic' 3<sup>rd</sup> Edition 2005, Mehta Publications, New Delhi.
- 7. Natrajan Mayilvahan "Natrajan's Text Book of Orthopedic and Traumatology, with multiple choice questions", 6<sup>th</sup> Edition, All India Publications and Distributors, New Delhi.

- 8. Roger Dee & et al (1997); Principles of orthopedic Practice; 2<sup>nd</sup> ed; Mcgraw Hill
- 9. Ronald MaRae 'Clinical Orthopedic Examination' 5th edition, Churchill Livingstone, 2004
- 10. Segelov's Philip M. 'Complications of Fractures and Dislocation,' 1st Edition 1990, champion and Hall Publications.
- 11. S. Perrycanale ed; (2003); Cambell's Operative Orthopedics; 10<sup>th</sup> ed; Mosby
- 12. Wood Lovell and Robert Winter (1978); <u>Pediatric Orthopedics</u>; Vol. I & II; J.B. Lippincott Co.

#### Journals:-

- 18. Journals of Bone and Joint Surgery
- British
- American
- 19. Clinical Orthopedic and Related Research
- 20. The Journal of Trauma, Injury, Infection and Critical Care
- 21. Journal Of Pediatric Orthopedics
- 22. Journal of orthopedic nursing

#### **CLINICAL SPECIALITY - II**

#### MEDICAL SURGICAL NURSING - GASTRO ENTEROLOGY NURSING

Placement: III Semester- T-75 hrs (I-VII unit)

Practical- 150 hrs

IV Semester- T-75 hrs (VIII- XIII unit)

Practical-810 hrs

**Hours of Instruction** 

Theory: 150 hours: C-3

Practical: 960 hours: C-16

Total: 1100 hours: C-19

**Course Description** 

This course is designed to assist students in developing expertise and in- depth understanding in the field of gastro enterology Nursing. It will help students to develop advanced skills for nursing intervention in various gastro enterology conditions. It will enable the student to function as gastro enterology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of gastro enterology nursing

**Objectives** 

At the end of the course the students will be able to

- 1. Appreciate trends and issues related to gastro enterology nusing
- Describe the epidemiology, etiology, pathophysiology and diagnostic
   Assessment of gastrointestinal conditions
- 3. Participate in national health programs for health promotion prevention and rehabilitation of patients with gastrointestinal conditions
- 4. Perform physical, psychosocial & spiritual assessment
- 5. Assist in various diagnostic, therapeutic and surgical procedures
- 6. Provide comprehensive care to patient with gastrointestinal conditions
- 7. Describe the various drugs used in gastrointestinal conditions and nurses responsibility
- 8. Demonstrate skill in handling various equipments/gadgets used for patients with gastrointestinal conditions
- 9. Appreciate team work & coordinate activities related to patient care.
- 10. Practice infection control measures.
- 11. Identify emergencies and complications & take appropriate measures
- 12. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs
- 13. Discuss the legal and ethical issues in GE nursing
- 14. Identify the sources of stress and manage burnout syndrome among health care providers
- 15. Appreciate the role of alternative system of medicine in care of patient
- 16. Incorporate evidence based nursing practice and identify the areas of research in the field of gastrointestinal nursing
- 17. Teach and supervise nurses and allied health workers.

18. Design a layout of Gastro entrology intensive care unit (GEICU) , liver care/transplant unit

## **Course Content**

Unit	Hours	Content
I	5	INTRODUCTION  Historical development: trends and issues in the field of gastro enterology.  Gastro enterological problems  Concepts, principles and nursing perspectives  Ethical and legal issues  Evidence based nursing and its application in gastrointestinal nursing(to be incorporated in all the units)
II	5	EPIDEMIOLOGY  Risk factors associated with GE conditions- Hereditary,  Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations  Health promotion, disease prevention, life style modification and its implications to nursing  National health programmes related to gastro enterology  Alternate system of medicine/complementary therapies

III	5	REVIEW OF ANATOMY AND PHYSIOLOGY OF GASTROINTESTINAL SYSTEM
		Gastrointestinal system
		Liver, biliary and pancreas
		Gerontologic considerations
		Embryology of GI system
		Immunology specific to GI system

IV	15	ASSESSMENT AND DIAGNOSTIC MEASURES
		History taking
		Physical assessment, psychosocial assessment
		Diagnostic tests
		Radiological studies:Upper GIT- barium swallow, lower GIT-
		Barrium enema,
		Ultra sound:
		Computed tomography
		• MRI
		Cholangiography: Percutaneous transheptatic
		Cholangiogram(PTC)
		Magnetic Resonance Cholangio pancreotography (MRCP)
		Nuclear imaging scans(scintigraphy)
		• Endoscopy
		Colonoscopy
		Proctosigmoidoscopy
		Endoscopic Retrogrde Cholongio pancreotography (ERCP)
		Endoscopic ultrasound
		Peritonoscopy(Laproscopy)
		Gastric emptying studies
		Blood chemistries: Serum amylase, serum lipase
		Liver biopsy
		Miscellaneous tests:Gastric analysis, fecal analysis
		Liver function tests: Bile formation and excretion, dye excretion
		Liver function tests: Bile formation and excretion, dye excretion

		test, Protein metabolism, haemostatic functions- prothrombin
		vitamin K production, serum enzyme tests,Lipid metabolism-
		serum cholesterol
		Interpretation of diagnostic measures
		Nurse's role in diagnostic tests
V	25	GASTRO INTESTINAL DISORDERS AND NURSING MANAGEMENT
		Etiology, clinical manifestations, diagnosis, prognosis, related
		pathophysiology, medical , surgical and nursing management of
		Disorders of the mouth: Dental caries, Peridontal disease, Acute
		tooth infection, Stomatitis, Thrush (moniliasis), Gingivitis,
		Leukoplakia, Inflammation of the parotid gland, Obstruction to
		the flow of saliva, Fracture of the jaw

- Disorders of the oesophagus: Reflux oesophagitis, Oesophageal achalasia, Oesoophageal varices, Hiatus hernia, Diverticulum
- Disorders of the stomach and duodenum: Gastritis, Peptic
  ulcer, Dumping of the stomach, Food poisoning, idiopathic
  gastroparesis, Aerophagia and belching syndrome, Ideopathic
  cyclic nausea and vomiting, Rumination syndrome, Functional
  dyspepsia, Chronic Non specific (functional) abdominal pain
- Disorders of the small intestine
  - Malabsorption syndrome tropical sprue
  - Gluten sensitive enteropathy (Coeliac disease)
  - Inflammatory diseases of intestines and abdomen,:
     appendicitis, Peritonities, Intestinal obstruction,
     Abdominal TB, Gastrointestinal polyposis syndrome
  - Chronic inflammatory bowel disease, Ulcerative colites,
     crohn's disease
  - Infestations and infections Worm infestations, Typhoid,
     Leptospirosis
  - Solitary rectal ulcer syndrome
  - Alteration in bowel elimination (diarrhoea, constipation, fecal impaction, fecal incontinence, Irritable bowel syndrome, Chronic idiopathic constipation, Functional diarrhoea

Anorectal Conditions: Hemorrhoide, Anal fissure, Anal fistula,

		Abscess, Strictures, Rectal prolapse, Pruritis ani, Pelonidal disease,
		Anal condylomas, Warts
VI	15	DISORDER OF LIVER, PANCREAS GALL BLADDER AND NURSING
		MANAGEMENT
		Disorders of liver biliary tract:
		Viral Hepatitis – A, B, C, D & E
		Toxic hepatitis
		Cirrhosis of liver, liver failure, Liver transplantation
		Non cirrhotic portal fibrosis
		• Liver abscess,;
		Parasitic and other cysts of the liver
		Disorders of the Gall Bladder and Bile Duct:
		Cholecystitis
		Cholelitheasis
		Choledocholilethiasis
		Disorders of the pancreas: Pancreatitis,
		Benign tumors of islet cells
		Disorders of the Peritoneum
		Infections of the peritoneum
		Surgical peritonitis
		Spontaneous bacterial peritonitis
		Tuberculosis peritonitis
		Disorders of the Diaphragm

	1	_
		Diaphragmatic hernia
		Congenital hernias
		Paralysis of diaphragm
		Tumors of the diaphragm
		Hiccups
VII	5	ADMINISTRATION AND MANAGEMENT OF GE UNIT
		<ul> <li>Design &amp; layout</li> <li>Staffing,</li> <li>Equipment, supplies,</li> <li>Infection control; Standard safety measures</li> <li>Quality Assurance:-Nursing audit –records /reports, Norms,</li> <li>policies and protocols</li> </ul>
		o Practice standards
\/III	4.5	CACTED INTEGTINAL ENGERGENICIES AND NUIDSING INTERVENTIONS
VIII	15	GASTRO INTESTINAL EMERGENCIES AND NURSING INTERVENTIONS
		Etiology, clinical manifestations, diagnosis, prognosis, related
		pathophysiology, medical, surgical and nursing management of:
		Esophageal varices,
		Ulcer perforation,
		Acute cholecystitis
		Diverticulitis
		Fulminant hepatic failure
		Biliary obstruction
		Bowel obstruction
		Gastroenteritis
		Intussusception

- Acute intestinal obstruction, perforation
- Acute pancreatitis
- Cirrhosis of liver complications
- Liver , spleen, stomach pancreatic, mesenteric, bowel and greater vessel injuries
- Acute appendicitis /peritonitis
- Acute abdomen
- Food poisoning

IX	15	CONGENITAL ANOMALIES OF ESOPHAGUS
		Esophageal atresia
		Tracheo esophageal fistula
		Esophageal stenosis
		Esophageal duplications
		Dysphagia – Lusoria – aberrent right subclavian artery
		compressing esophagus
		Esophageal rings – schalzkiring
		Esophageal webs
		<ul> <li>Congenital Anomalies of Stomach</li> <li>Gastric atresia</li> </ul>
		Micro gastria
		Gastric diverticulum
		Gastric duplication
		Gastric teratoma
		Gastric volvulus
		Infantile hypertrophic pyloric stenosis
		Adult hypertrophic pyloric stenosis
		<ul> <li>Congenital Anomalies of Duodenal</li> <li>Duodenal Atresia or stenosis</li> </ul>
		Annular pancreas
		Duodenal duplication cysts
		Malrotation and mid gut volvolus

		<ul> <li>Developmental anomalies of the intestine:</li> </ul>			
		Abdominal wall defects (omphalocele and Gastroschisis)			
		Meckel's diverticulum			
		Intestinal atresia			
		י ווונכטנוומו מנופטומ			
		Hirschsprung's disease			
		This on spraing 3 disease			
Х	15	PHARMO KINETICS			
		<ul> <li>Drugs used in GIT</li> </ul>			
		<ul> <li>Principles of administration</li> </ul>			
		<ul> <li>Roles responsibilities of nurses</li> </ul>			
		<ul> <li>Drugs in Peptic ulcer disease</li> </ul>			
		<ul> <li>Proton Pump inhibitors</li> </ul>			
		<ul> <li>H2 Receptor Antagonists</li> </ul>			
		<ul> <li>Cytoprotective Agents:</li> </ul>			
		<ul> <li>Drugs used in Diarrhea</li> </ul>			
		<ul> <li>Drugs used in constipation</li> </ul>			
		<ul> <li>Drugs used in Inflammatory Bowel Disease</li> </ul>			
		<ul> <li>Aminosalicylates</li> </ul>			
		<ul> <li>Corticosteroids</li> </ul>			
		<ul> <li>Immunomodulators</li> </ul>			

l		1
		o chemotherapy
		o Antibiotics
		o Antiemetics:
		<ul> <li>Anticholinergics</li> </ul>
		<ul> <li>Antihistaminics</li> </ul>
		<ul> <li>Antihelminthics</li> </ul>
		<ul> <li>Vitamin Supplements</li> </ul>
ΧI	10	NUTRITION AND NUTRITIONAL PROBLEMS RELATED TO GI SYSTEM
		<ul> <li>Nutritional assessment and nursing interventions</li> </ul>
		Therapeutic diets
		<ul> <li>Adverse reactions between drugs and various foods</li> </ul>
		<ul> <li>Malnutrition- etiology , clinical manifestations and</li> </ul>
		management
		<ul> <li>Tube feeding, parenteral nutrition, total parenteral nutrition</li> </ul>
		<ul> <li>Obesity- etiology, clinical manifestations and management</li> </ul>
		<ul> <li>Eating disorders- anorexia nervosa, bulimia nervosa</li> </ul>
		<ul> <li>Recent advances in nutrition</li> </ul>
XII	15	MALIGNANT DISORDERS OF GASTRO INTESTINAL SYSTEM
		<ul> <li>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical, other modalities and nursing</li> </ul>
		management of:
		Malignancy of oral cavity ,Lip,Tongue,buccal mucosa,
		Malignancy of oral cavity ,Lip,Tongue,buccal mucosa,     oropharynx, Salivary gland
		oropharynx, Salivary gland
		oropharynx, Salivary gland  • Esophageal , Gastric , Carcinoma of bowel - Small bowel,
		oropharynx, Salivary gland  • Esophageal , Gastric , Carcinoma of bowel - Small bowel,  Colorectal and Anal carcinoma,
XIII	5	oropharynx, Salivary gland  • Esophageal , Gastric , Carcinoma of bowel - Small bowel,  Colorectal and Anal carcinoma,
XIII	5	oropharynx, Salivary gland  • Esophageal , Gastric , Carcinoma of bowel - Small bowel,  Colorectal and Anal carcinoma,  • Liver, biliary tract and Pancreatic carcinoma  EDUCATION AND TRAINING IN GE CARE
XIII	5	oropharynx, Salivary gland  • Esophageal , Gastric , Carcinoma of bowel - Small bowel,  Colorectal and Anal carcinoma,  • Liver, biliary tract and Pancreatic carcinoma  EDUCATION AND TRAINING IN GE CARE

	Clinical teaching programs

## Practical's

Total = 960 Hours

1 Week = 30 Hours

Sr.no.	Dept./Unit	No. of Week	Total Hours

1	Diagnostic labs	2	60 Hours
2	Emergency and casualty	3	90 Hours
3	Liver transplant unit	1	30 Hours
4	GE Medical Ward	6	180 Hours
5	GE Surgical Ward	8	240 Hours
6	ОТ	2	60 Hours
7	ICU	4	120 Hours
8	Pediatric gastroenterology	2	60 Hours
9	Oncology	2	60 Hours
10	GE OPD	2	60 Hours
	Total	32 Weeks	960 Hours

#### **Procedures Assisted**

- 1.Endoscopy room Upper G.I. Endoscopy (Diagnotic and therapeutic).
- 2.Sigmoidoscopy
- 3.Colonoscopy
- 4.Polypectomy
- 5. Endoscopic retrograde cholangio pancreatiography (ERCP)
- 6.Liver biopsy
- 7. Percutaneous catheter drainage (PCD) of Pseudocyst pancreas
- 8. Abdominal paracentesis
- 9. Percutaneous aspiration of liver abscess
- 10. GE Lab: PT, HbsAg, Markers A, B, C virus, CBP, ESR, Stool Test

**Procedures Performed** 

- 1. History and Physical assessment
- 2. RT intubation / extubation / aspiration/suction
- 3. Gastric lavage and gavage
- 4. Bowel wash
- 5. Therapeutic Diets
- 6. Ostomy feeding
- 7. Stoma care
- 8. Monitoring vital parameters
- 9. Plan of inservice education programme for nursing staff and Class-IV employees
- 10. Counseling

Visit

- 1.Ostomy clinic.
- 2. National Nutrition institute

- 3.institute manufacturing commercial food products
- 4. whole sell market for grain and food storage

## Dr D Y Patil College of Nursing M Sc Nursing Evaluation criteria for Case study

Name of the student:

Topic:

Date of submission:

Sr No	Criteria	Marks allotted	Marks obtained
1	Assessment	05	
2	Theoretical knowledge about disease	05	
3	Comparative study of patient's disease & book picture	10	
4	Management: Medical/surgical	05	
5	Nursing process	15	
6	Drug study	03	
7	Summary & conclusion including research evidence	05	
8	Bibliography	02	
	Total	50	

Remark

Signature of evaluator Date

## Dr D Y Patil College of Nursing M Sc Nursing Evaluation criteria for Care Plan

Name of the student:

Topic:

Date of submission: Field of placement:

Sr No	Criteria	Marks allotted	Marks obtained
1	Assessment	12	
2	Nursing diagnosis	3	
3	Goal	2	
4	Outcome criteria/Objective	2	
5	Nursing intervention	15	
6	rationale	03	
7	Evaluation	03	
8	Nurses notes	10	
	Total	50	

Remark

Signature of student Date

Signature of evaluator Date

# Dr D Y Patil College of Nursing M Sc Nursing Evaluation criteria for Case presentation

Name of the student:
Name of the patient:
Diagnosis:
Ward:

Date of presentation:

Sr No	Criteria	Marks allotted	Marks obtained
1	Subjective & objective data	08	
2	Problem & need identified & nursing care plan	15	
3	Effectiveness of presentation	05	
4	Corelation with patient & book, research evidence	10	
5	Use of A. V. aids	05	
6	Physical arrangement	02	

7	Group participation	03	
8	Bibliography	02	
	Total	50	

Remark

Signature of student Date

Signature of evaluator Date

## DR.D.Y.PATI COLLEGE OF NURSING BHOSARI , PUNE-18.

## **EVALUATION CRITERIA FOR SEMINAR PRESENTATION**

Subject:	
	Date:
Name of student:	Time:
Group:	Maximum Marks: 100

S.No.	Criteria	Rating					Remarks
		1	2	3	4	5	
1.	Content						

	Introduction			
2.	Organization of Content			
3.	Presentation of topic			
4.	Relevant examples			
5.	Relevant statistical data			
6.	Group participation			
7.	Control of group			
8.	AV Aids:			
	Appropriate to subject			
9.	Proper use of A/V Aids			
10.	Self explanatory			
11.	Attractive			
12.	Planning and preparation			
13.	Use of Modern technology			
14.	Physical facilities:			
	Environment			
15.	Classroom preparation			
16.	Over lay out			
17.	Personal Appearance:			
	Voice & clarity			
18.	Mannerisms			
19.	Conclusion			
20.	References			

Remarks & signature of supervisor:

Signature of student:

## DR. D. Y. Patil College of Nursing, Bhosari, Pune-18

## M. Sc. Nursing

## **Evaluation Criteria for Written Assignment**

Total Marks = 25

S.N.	Criteria	Marks
1.	Content	10
2.	Organization	05
3.	Resources used	03
4.	Completeness	03
5.	Neatness	02

6.	Bibliography	02
	Total	25

Remarks: - Total:-

Date & Signature of the Evaluator: Date & Signature of the student

## **CLINICAL EVALUATION: - COMPREHENSIVE NURSING CARE**

(maximum marks - 100 each area)

## Name of the students

Year :- II semester M.Sc Nursing

**Duration of Experience:** 

SR.No.	Criteria	1	2	3	4	5
1	Understanding of patient as person					
	A. Approach					
	1.Rapport with patient / family members.					
	2.Collects significant information					
	B.Understanding of patient's health problems.					
	1.knowledge about disease condition.					
	2.knowledge about investigations.					
	3.knowledge about treatment.					
	4.knowledge about progress of the patient.					
II	Nursing care plan					
	A.Assessment of the condition of the patient .					
	1. History taking –past & present health and illness					
	2.specific observation of the patient					
	3. Nursing diagnosis					

B.Development of the short – term & long term nursing care plans.					
1.Indentification of all problems in the patient family.					
2.Priritization 7 implementation of the plans.					
3.Evaluation of the care given & re-planning					
Technical skill					
1.Economical & safe adaptation to the situation & available facilities.					
2.Implements the procedure with skill speed & completeness.					
Recording & Reporting					
1.Prompt, Precise , accurate & relevant.					
2.Maintanance of clinical experience file.					
Health Teaching					
1.Incidental/ Planned teaching with principles of teaching & learning.					
2.Uses visual aids appropriately					
Personality					
1.Professional appearance (Uniform, dignity, tact fullness					
interpersonal relationship , ,Punctuality etc.					
2.Sincerely, honesty & sense of responsibility					
Total Marks					
	2.Priritization 7 implementation of the plans. 3.Evaluation of the care given & re-planning  Technical skill  1.Economical & safe adaptation to the situation & available facilities. 2.Implements the procedure with skill speed & completeness.  Recording & Reporting  1.Prompt, Precise, accurate & relevant. 2.Maintanance of clinical experience file.  Health Teaching  1.Incidental/ Planned teaching with principles of teaching & learning. 2.Uses visual aids appropriately  Personality  1.Professional appearance (Uniform, dignity, tact fullness interpersonal relationship,, Punctuality etc. 2.Sincerely, honesty & sense of responsibility	1.Indentification of all problems in the patient family. 2.Priritization 7 implementation of the plans. 3.Evaluation of the care given & re-planning  Technical skill 1.Economical & safe adaptation to the situation & available facilities. 2.Implements the procedure with skill speed & completeness.  Recording & Reporting 1.Prompt, Precise , accurate & relevant. 2.Maintanance of clinical experience file.  Health Teaching 1.Incidental/ Planned teaching with principles of teaching & learning. 2.Uses visual aids appropriately  Personality 1.Professional appearance (Uniform, dignity, tact fullness interpersonal relationship , ,Punctuality etc. 2.Sincerely, honesty & sense of responsibility	1.Indentification of all problems in the patient family. 2.Priritization 7 implementation of the plans. 3.Evaluation of the care given & re-planning  Technical skill 1.Economical & safe adaptation to the situation & available facilities. 2.Implements the procedure with skill speed & completeness.  Recording & Reporting 1.Prompt, Precise , accurate & relevant. 2.Maintanance of clinical experience file.  Health Teaching 1.Incidental/ Planned teaching with principles of teaching & learning. 2.Uses visual aids appropriately  Personality 1.Professional appearance (Uniform, dignity, tact fullness interpersonal relationship , ,Punctuality etc. 2.Sincerely, honesty & sense of responsibility	1.Indentification of all problems in the patient family. 2.Priritization 7 implementation of the plans. 3.Evaluation of the care given & re-planning  Technical skill 1.Economical & safe adaptation to the situation & available facilities. 2.Implements the procedure with skill speed & completeness.  Recording & Reporting 1.Prompt, Precise , accurate & relevant. 2.Maintanance of clinical experience file.  Health Teaching 1.Incidental/ Planned teaching with principles of teaching & learning. 2.Uses visual aids appropriately  Personality 1.Professional appearance (Uniform, dignity, tact fullness interpersonal relationship , ,Punctuality etc. 2.Sincerely, honesty & sense of responsibility	1.Indentification of all problems in the patient family. 2.Priritization 7 implementation of the plans. 3.Evaluation of the care given & re-planning  Technical skill 1.Economical & safe adaptation to the situation & available facilities. 2.Implements the procedure with skill speed & completeness.  Recording & Reporting 1.Prompt, Precise , accurate & relevant. 2.Maintanance of clinical experience file.  Health Teaching 1.Incidental/ Planned teaching with principles of teaching & learning. 2.Uses visual aids appropriately  Personality 1.Professional appearance (Uniform, dignity, tact fullness interpersonal relationship , ,Punctuality etc. 2.Sincerely, honesty & sense of responsibility

Comments

Signature of student

signature of clinical supervisor

#### **Evaluation Criteria:**

## Theory:

Unit test I 25 marks

Prefinal 75marks

Seminar (1) 100 marks each

Topic Presentation(1) 50 marks

Journal Presentation(1) 25 marks

Written assignment 25 marks

Total marks 300marks (send university out of 25)

#### **Practical:**

Unit test I 25 marks

Prefinal 100 marks

Nursing procedure 50 marks

Clinical assignments

• Case study (2) 50x2=100

• Case presentation (2) 50x2=100

• Care plan (3) 50x3=150

• Clinical evaluation (2) 100x2=200

• Project work(1)

100x1=100

#### **Total marks**

825marks (send university out of 100)

#### **University Examination:**

Theory: 75

Practical: 100

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